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Final Technical Report

L-BAND RADAR CLUTTER STATISTICS FOR TERRAIN AND ICE

Volume II: Appendices

Electronic Systems Program Development Office

FEBRUARY 1978

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US Army Missile Research and
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Andrew/Maffett, Herb/Klimach,
Abby/Liskow, R./Rawson R. C./Heimiller

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <p>This final report addresses radar clutter statistics for terrain and ice and the generation of clutter data tapes by means of a radar signal simulation. These data cover pack ice (and refrozen lead), bare mountains, tundra and black ice. For comparison purposes, data are also included for a city (Toronto) and three homogeneous fields. These clutter data are described by statistical quantities. The clutter data for the</p>		

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20. ABSTRACT (continued)

pack ice, bare mountain, and field provide σ_0 values which are in reasonable agreement with the small amount of L-band clutter data presently existing in the literature.

A description is also given of a radar signal simulation which was used to provide magnetic tape data for use in testing radar signal processor techniques. This simulation is capable of accepting as input the clutter data and statistics generated on this program.

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FOREWORD

This document is the final report for Contract DAAK40-77-C-0112, Distributed Spaceborne Radar Study, Amendment P0002, L-band Radar Clutter Statistics for Terrain and Ice covering the period from 26 July 1977 to 31 January 1978. The analyses and studies described in this report were conducted principally in the Radar and Optics Division of the Environmental Research Institute of Michigan (ERIM), P.O. Box 8618, Ann Arbor, Michigan 48107 and by a subcontractor, Decision Science Applications, Inc. (DSA), 1500 Wilson Blvd., Arlington, Virginia 22209. The effort was sponsored by U.S. Army Missile R&D Command, DARPA Projects Office and Rome Air Development Center. Mr. Samuel T. Uptain, Project Manager, DARPA Projects Office, U.S. Army Missile Research and Development Command/DRDMI-NS was the Contract Monitor. Mr. John McNamara, Rome Air Development Center/OCTF was the RADC Lead Engineer-in-Charge. The Program Manager at ERIM was (5) R. C. Heimiller, the principle investigator on this task was (4) R. Rawson. Prof. (1) Andrew Maffett, a consultant for ERIM was responsible for the clutter statistical analysis. Ms. (3) Abby Liskow was responsible for generating the clutter statistics from radar data using computer programs generated by Mr. (2) Herb Klimach.

The Program Manager at DSA was Mr. Jerry Belyea. Mr. Guy Ackerson and Philip Tomlinson of DSA performed radar signal analysis and derived the programs for generating the magnetic data tapes.

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APPENDIX I
STATISTICAL DISTRIBUTIONS OF CLUTTER DATA
(Computer Printouts)

The statistical distributions of clutter data have been generated in the form of computer printouts. The original printouts have been reduced and reproduced for use in this appendix. In general the quality is satisfactory but in some isolated cases, the values may be difficult to read. In this event, ERIM can supply the required information from the originals.

The computer printouts are arranged in sets of three. For each scene analyzed, the density distribution, the cumulative distribution and a table of values corresponding to the cumulative distribution histogram are presented. The figures are labeled as follows:

- Figure N - density distribution,
- Figure Na - cumulative distribution, and
- Figure Nb - cumulative distribution table.

This appendix will allow investigators the opportunity of using terrain data from a functional imaging radar [1] in order to test various clutter models of their choice.

-
1. R. Rawson, F. Smith and R. Larson, "The ERIM Simultaneous X- and L-band Dual Polarization Radar," IEEE International Radar Conference, 1975.

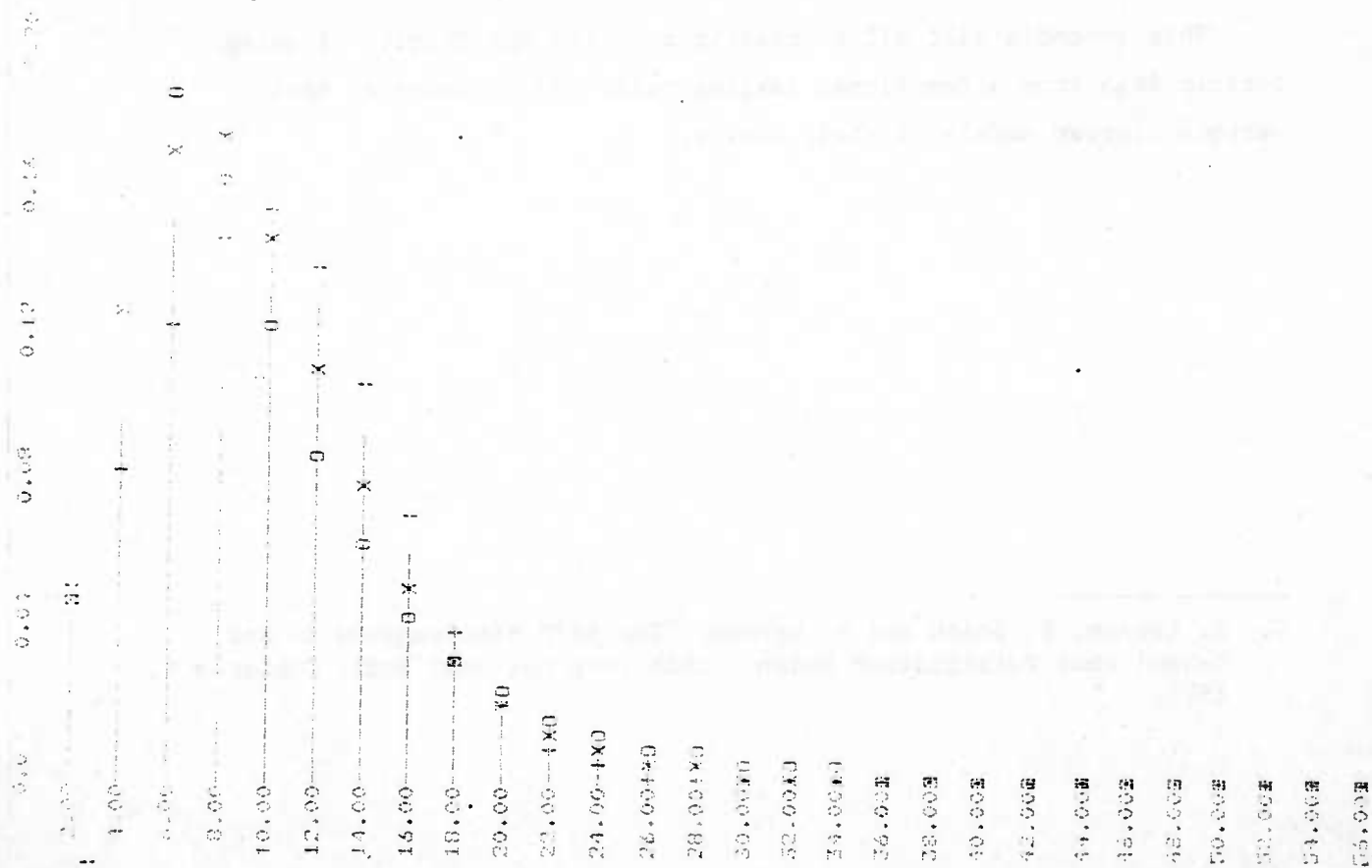


Figure 1. Histogram for Mountain

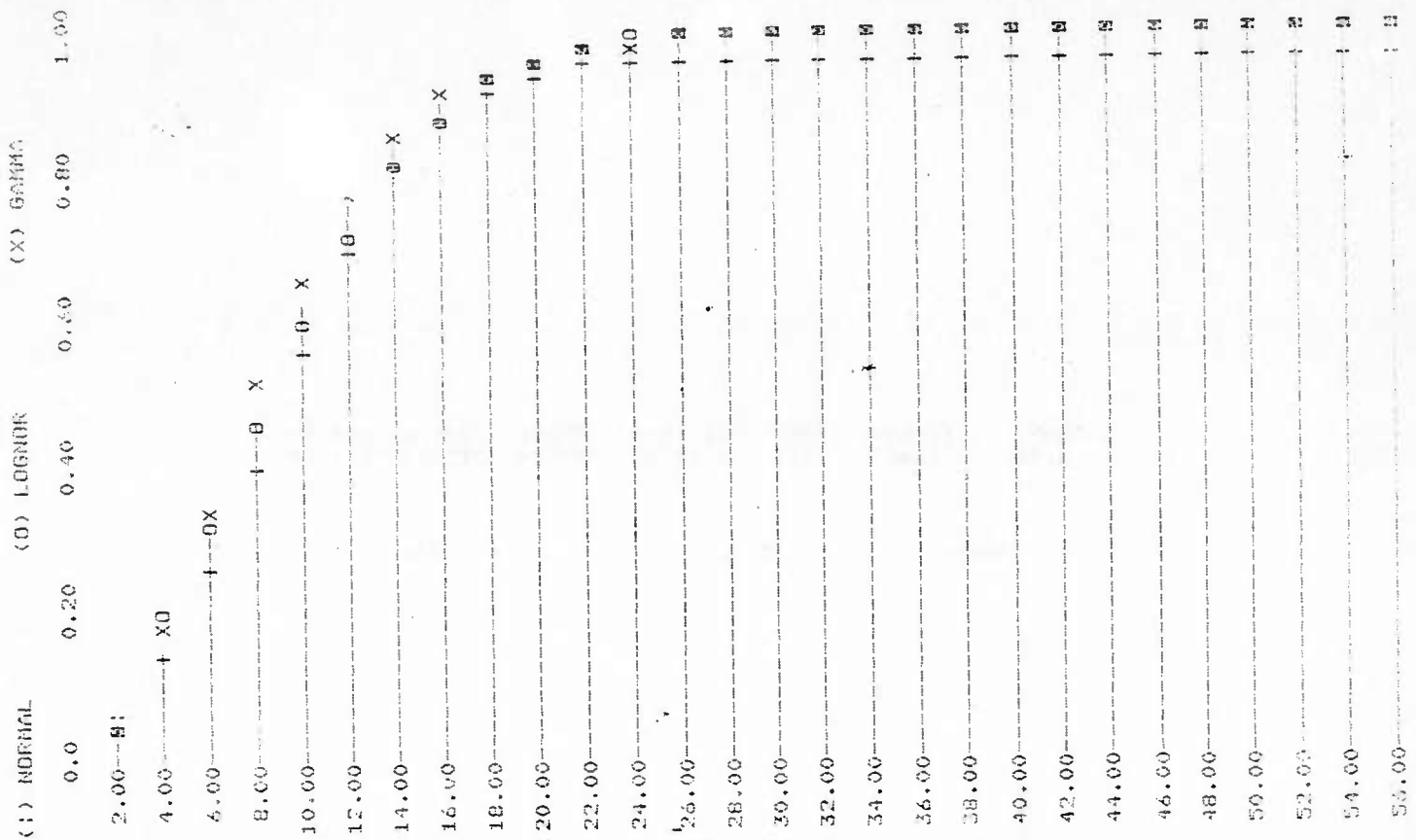


Figure 1a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.044	0.051	0.050	0.046
4.00	0.141	0.137	0.204	0.173
6.00	0.293	0.259	0.330	0.347
8.00	0.468	0.409	0.456	0.521
10.00	0.625	0.566	0.592	0.669
12.00	0.754	0.707	0.715	0.781
14.00	0.845	0.815	0.818	0.861
16.00	0.907	0.885	0.890	0.913
18.00	0.946	0.925	0.939	0.947
20.00	0.969	0.944	0.968	0.968
22.00	0.982	0.952	0.985	0.981
24.00	0.990	0.955	0.994	0.989
26.00	0.994	0.956	0.998	0.993
28.00	0.997	0.956	1.000	0.995
30.00	0.998	0.956	1.001	0.997
32.00	0.999	0.956	1.001	0.997
34.00	0.999	0.956	1.001	0.998
36.00	1.000	0.956	1.001	0.998
38.00	1.000	0.956	1.001	0.998
40.00	1.000	0.956	1.001	0.998
42.00	1.000	0.956	1.001	0.998
44.00	1.000	0.956	1.001	0.998
46.00	1.000	0.956	1.000	0.998
48.00	1.000	0.956	1.000	0.998
50.00	1.000	0.956	1.000	0.998
52.00	1.000	0.956	1.000	0.998
54.00	1.000	0.956	1.000	0.998
56.00	1.000	0.956	1.000	0.998

Figure 1b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.92	4.47	11	19.68	137.24	353.54	225.17

(.) NORMAL

(O) LOGNOR

(X) GAMMA

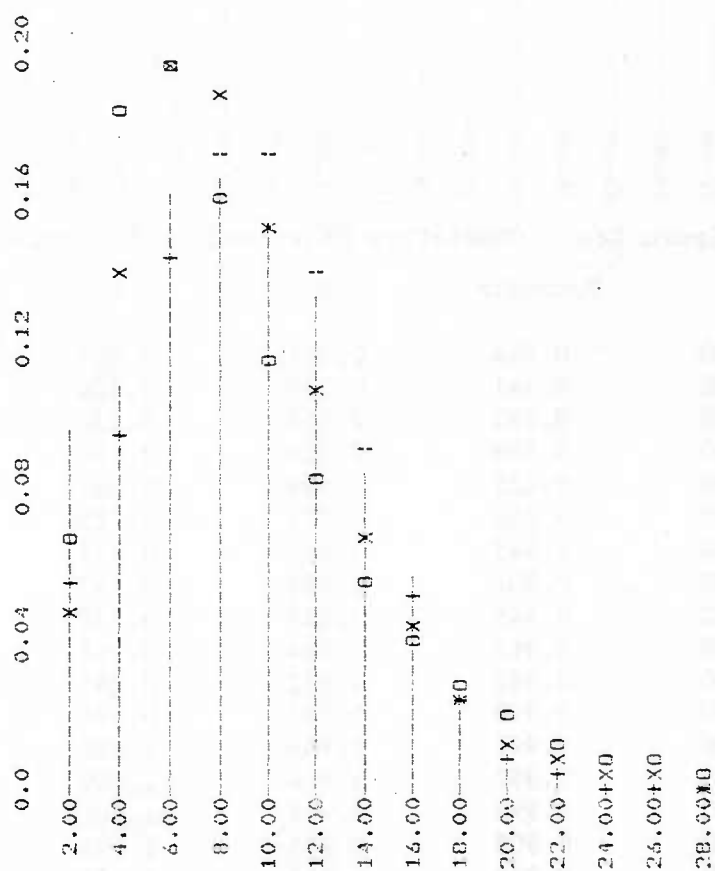


Figure 2. Histogram for Mountain

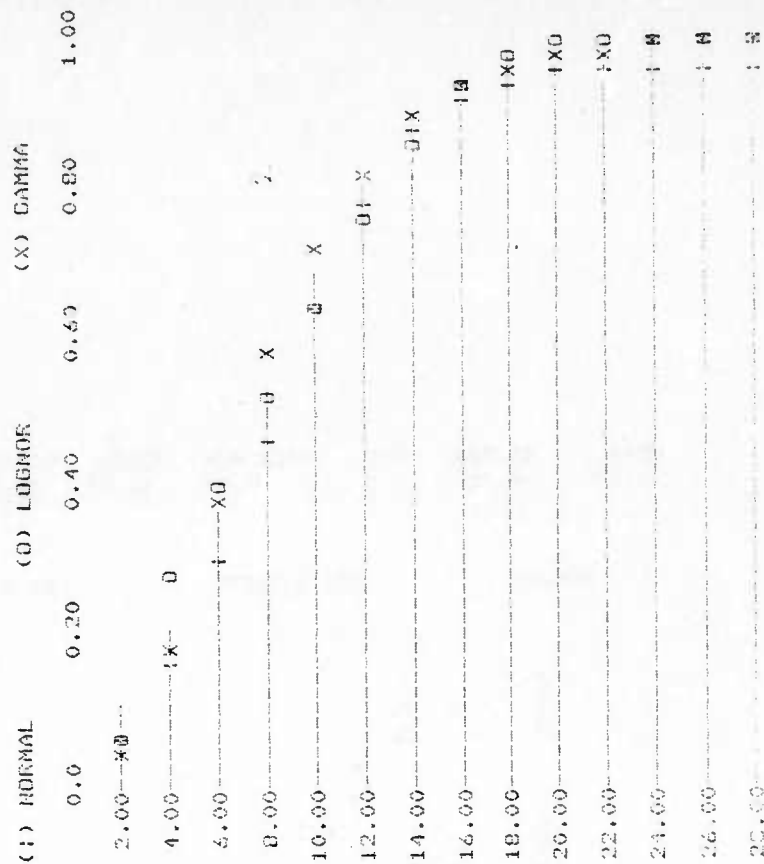


Figure 2a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.096	0.054	0.067	0.047
4.00	0.206	0.152	0.279	0.188
6.00	0.364	0.296	0.403	0.383
8.00	0.530	0.469	0.524	0.573
10.00	0.681	0.641	0.646	0.724
12.00	0.812	0.782	0.763	0.832
14.00	0.897	0.875	0.869	0.901
16.00	0.954	0.927	0.936	0.944
18.00	0.979	0.950	0.981	0.969
20.00	0.989	0.958	0.998	0.983
22.00	0.994	0.961	1.002	0.991
24.00	0.995	0.962	1.004	0.995
26.00	0.996	0.962	1.002	0.997
28.00	0.996	0.962	1.001	0.998

Figure 2b. Cumulative Distribution Data

MEAN	ST DEV	DCF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.57	4.45	7	14.07	46.50	76.34	70.29

(.) NORMAL

(O) LOGNOR

(X) GAMMA

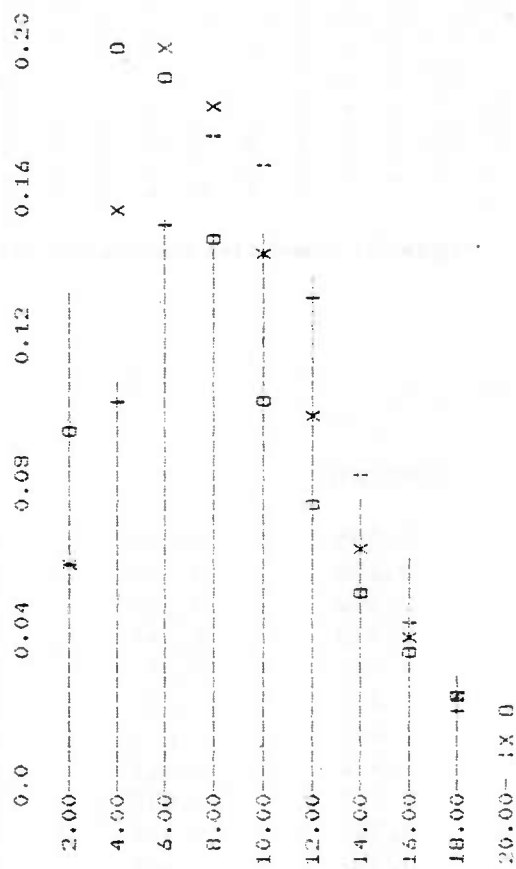


Figure 3. Histogram for Mountain

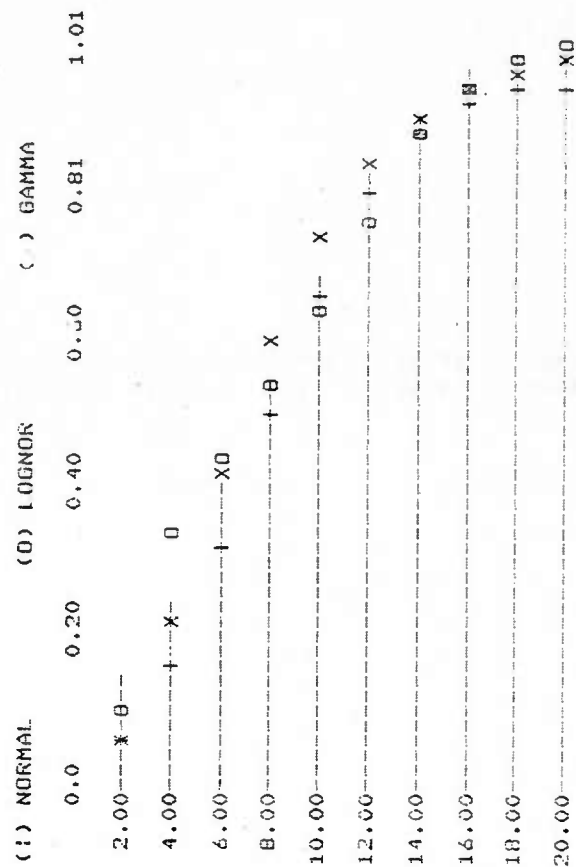


Figure 3a. Cumulative Distribution for Mountain

Mountain	N	L	G
2.000	0.133	0.061	0.094
4.000	0.242	0.167	0.295
6.000	0.394	0.318	0.486
8.000	0.541	0.494	0.643
10.000	0.688	0.663	0.739
12.000	0.825	0.794	0.813
14.000	0.902	0.881	0.854
16.000	0.950	0.926	0.871
18.000	0.968	0.945	0.871
20.000	0.988	0.953	0.871

Figure 3b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.01	4.51	5	12.59	17.34	20.65	17.17

(.) NORMAL

(O) LOGNOR

(X) GAMMA

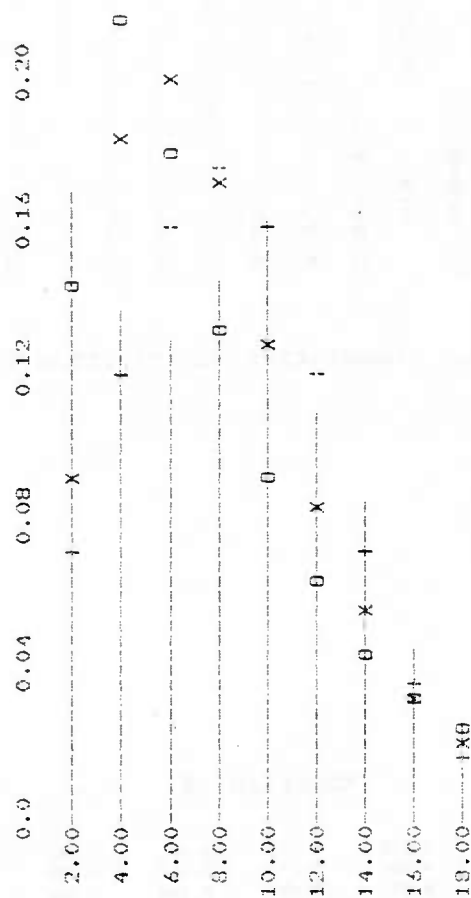


Figure 4. Histogram for Mountain.

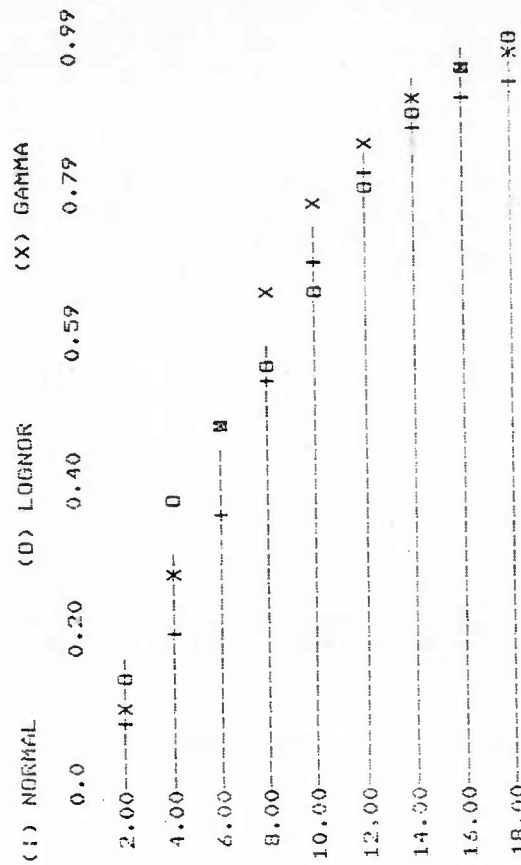
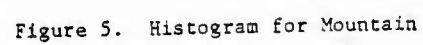


Figure 4a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.168	0.073	0.143	0.092
4.00	0.303	0.192	0.384	0.276
6.00	0.429	0.351	0.483	0.478
8.00	0.571	0.527	0.559	0.649
10.00	0.731	0.686	0.663	0.776
12.00	0.840	0.805	0.795	0.862
14.00	0.924	0.879	0.885	0.917
16.00	0.966	0.916	0.956	0.950
18.00	0.992	0.932	0.989	0.970

Figure 4b. Cumulative Distribution Data

(1) NORMAL (0) LONGER (X) GAMMA



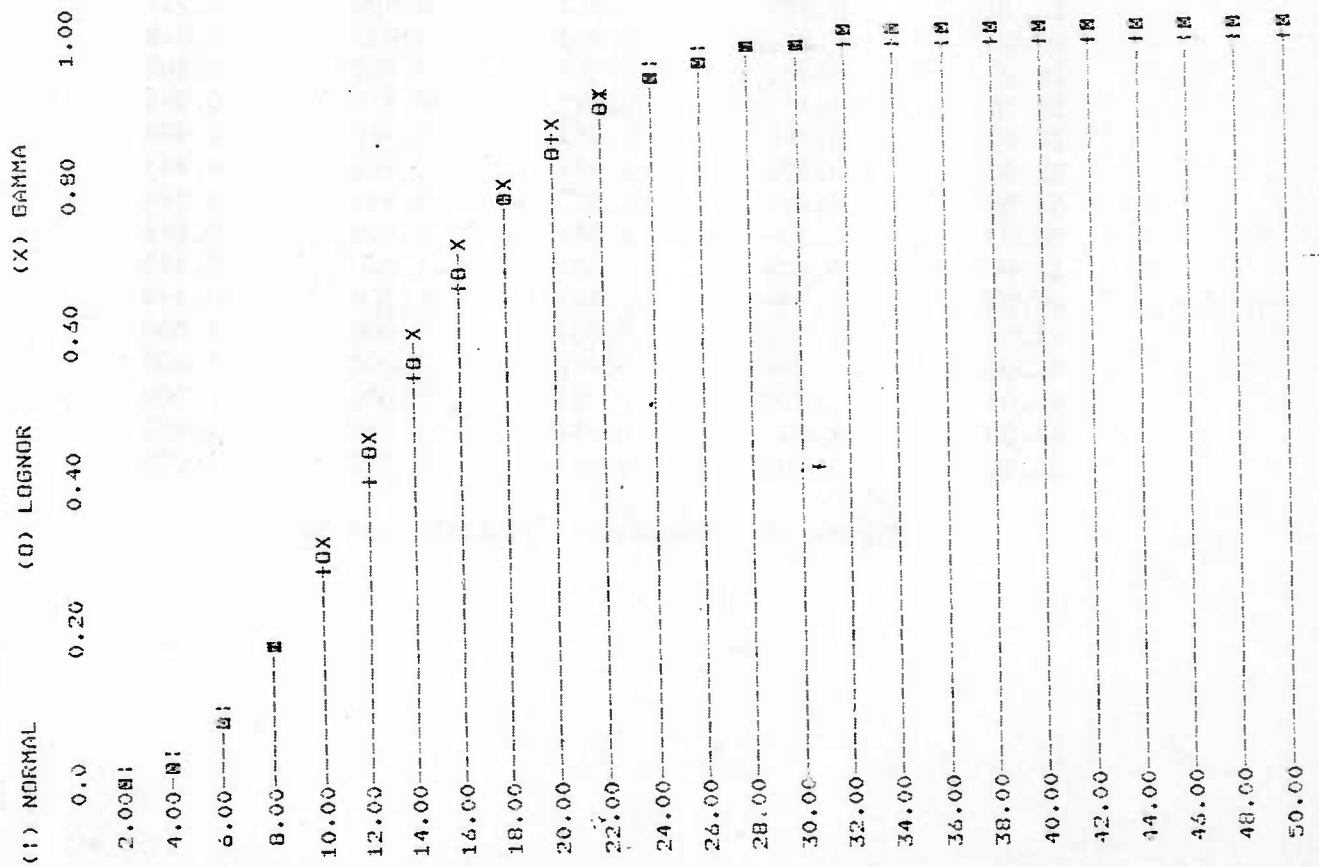


Figure 5a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.004	0.016	0.000	0.002
4.00	0.017	0.047	0.019	0.023
6.00	0.059	0.098	0.083	0.084
8.00	0.150	0.176	0.181	0.190
10.00	0.284	0.280	0.300	0.326
12.00	0.436	0.404	0.431	0.470
14.00	0.577	0.538	0.562	0.604
16.00	0.698	0.666	0.678	0.718
18.00	0.790	0.776	0.775	0.806
20.00	0.859	0.860	0.847	0.871
22.00	0.907	0.917	0.900	0.917
24.00	0.941	0.952	0.937	0.948
26.00	0.963	0.971	0.962	0.968
28.00	0.977	0.981	0.977	0.981
30.00	0.986	0.985	0.987	0.988
32.00	0.992	0.986	0.993	0.993
34.00	0.995	0.987	0.997	0.996
36.00	0.997	0.987	0.999	0.998
38.00	0.998	0.987	1.000	0.999
40.00	0.999	0.987	1.000	0.999
42.00	1.000	0.987	1.000	1.000
44.00	1.000	0.987	1.000	1.000
46.00	1.000	0.987	1.000	1.000
48.00	1.000	0.987	1.000	1.000
50.00	1.000	0.987	1.000	1.000

Figure 5b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.11	4.32	12	21.03	180.84	47.16	32.91

(.) NORMAL

(O) LOGNOR

(X) GAMMA

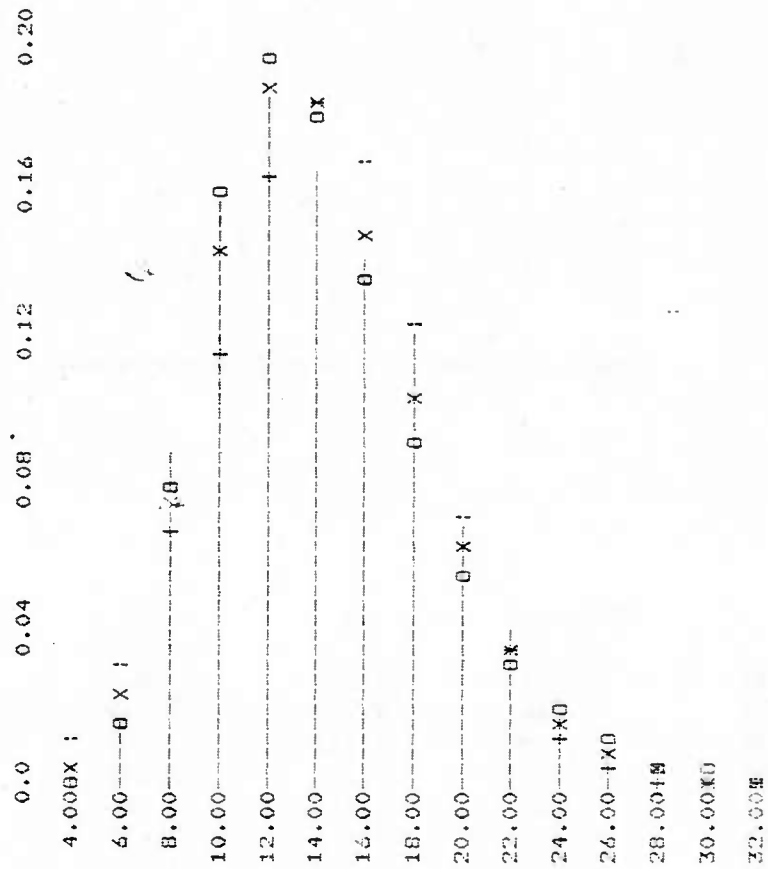


Figure 6. Histogram for Mountain

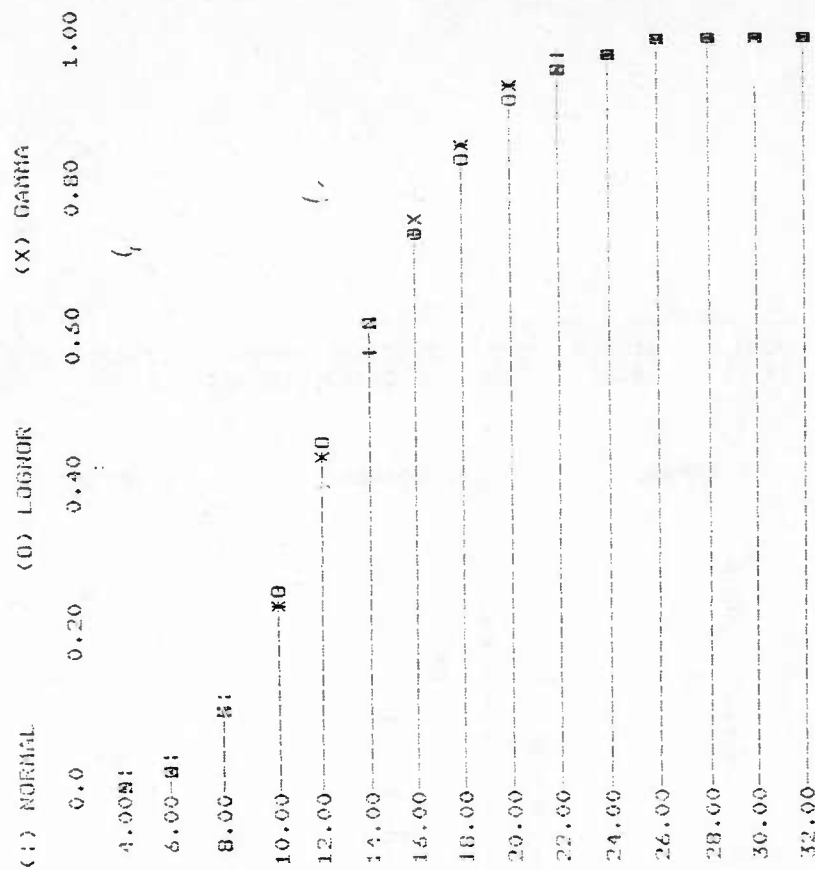


Figure 6a. Cumulative Distribution for Mountain

	Mountain	N	L	G
4.00	0.001	0.012	0.001	0.003
6.00	0.018	0.045	0.019	0.026
8.00	0.106	0.113	0.098	0.104
10.00	0.263	0.231	0.267	0.249
12.00	0.447	0.394	0.460	0.436
14.00	0.609	0.577	0.627	0.619
16.00	0.749	0.743	0.746	0.767
18.00	0.867	0.866	0.841	0.869
20.00	0.933	0.940	0.924	0.932
22.00	0.972	0.975	0.967	0.967
24.00	0.987	0.989	0.991	0.985
26.00	0.995	0.994	0.997	0.993
28.00	0.999	0.995	1.001	0.997
30.00	0.999	0.995	1.002	0.999
32.00	1.000	0.995	1.001	1.000

Figure 6b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
13.88	4.07	3	15.51	35.87	19.12	19.04

(1) NORMAL

(O) LOGNOR

(X) GAMMA

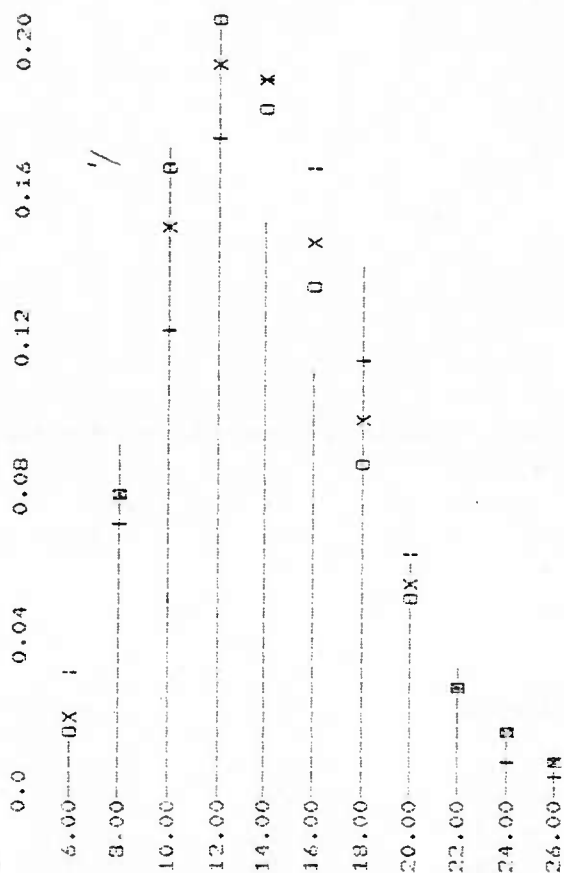


Figure 7. Histogram for Mountain

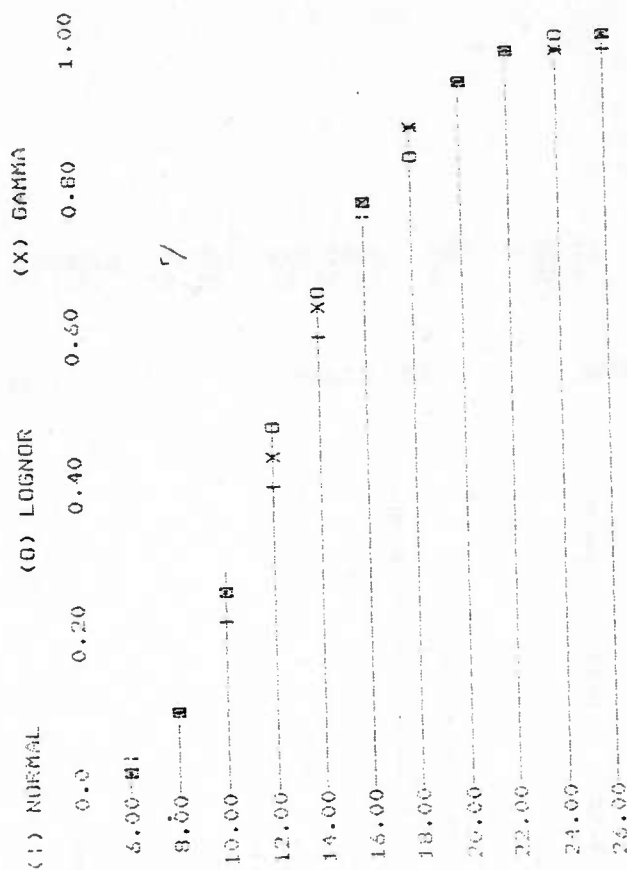


Figure 7a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.00	0.011	0.031	0.016	0.022
8.00	0.102	0.101	0.093	0.100
10.00	0.273	0.226	0.270	0.253
12.00	0.482	0.400	0.479	0.450
14.00	0.634	0.593	0.667	0.640
16.00	0.748	0.762	0.771	0.788
18.00	0.886	0.879	0.837	0.886
20.00	0.948	0.944	0.939	0.943
22.00	0.980	0.972	0.978	0.973
24.00	0.991	0.982	0.996	0.987
26.00	0.998	0.984	0.999	0.994

Figure 7b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
13.46	3.93	5	12.59	11.99	7.85	8.08

(1) NORMAL

(0) LOGNOR

(X) GAMMA

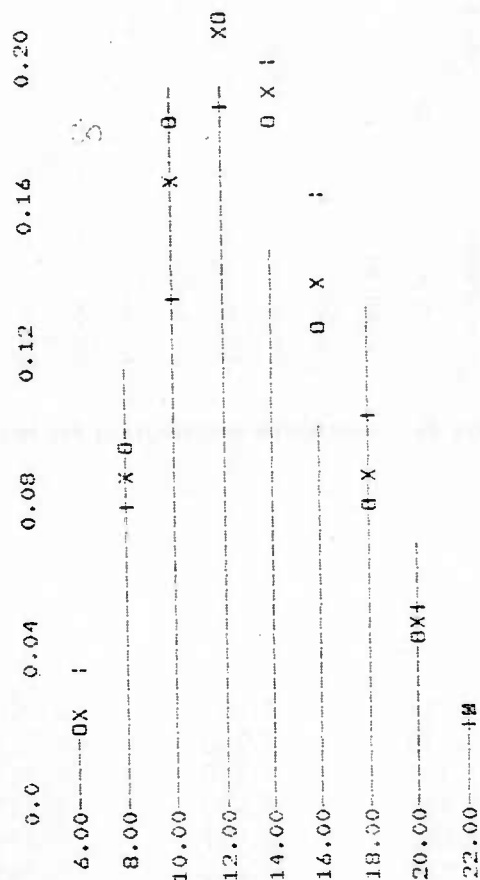


Figure 8. Histogram for Mountain

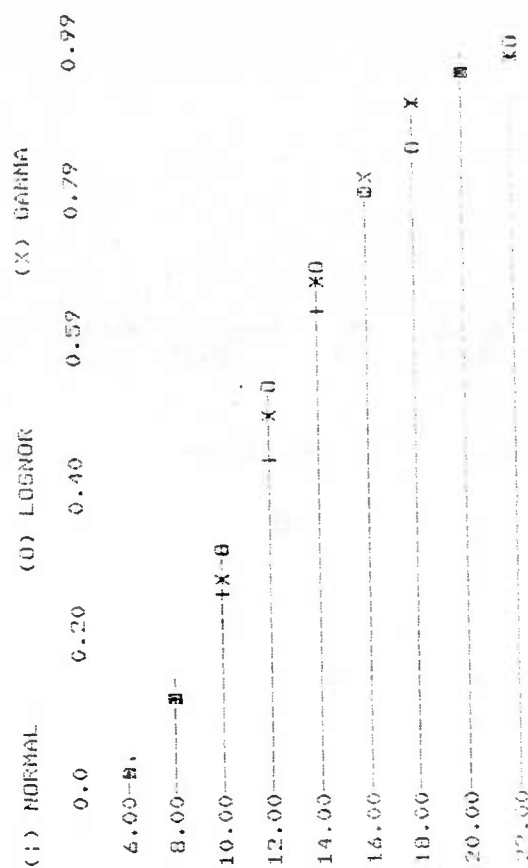


Figure 8a. Cumulative Distribution for Mountain

Mountain	N	L	G
6.00	0.017	0.034	0.020
8.00	0.133	0.113	0.114
10.00	0.325	0.250	0.282
12.00	0.517	0.438	0.489
14.00	0.667	0.637	0.680
16.00	0.767	0.800	0.821
18.00	0.900	0.905	0.909
20.00	0.967	0.957	0.956
22.00	0.992	0.977	0.980

Figure 8b. Cumulative Distribution Data

MEAN 52.09 ST DEV 13.92 DOF 37 CHI2 MAX 43.7741332.09 NORMAL LOGNOR GAMMA 1129.2211639.60

0.0 0.04 0.08 0.12 0.16 0.20

(X) GAMMA

(O) LOGNOR

(I) NORMAL

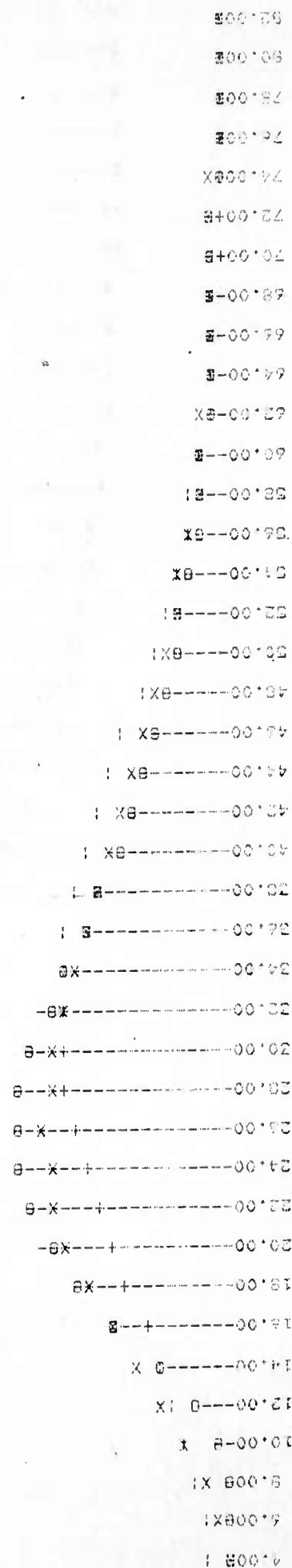


Figure 9. Histogram for Mountain

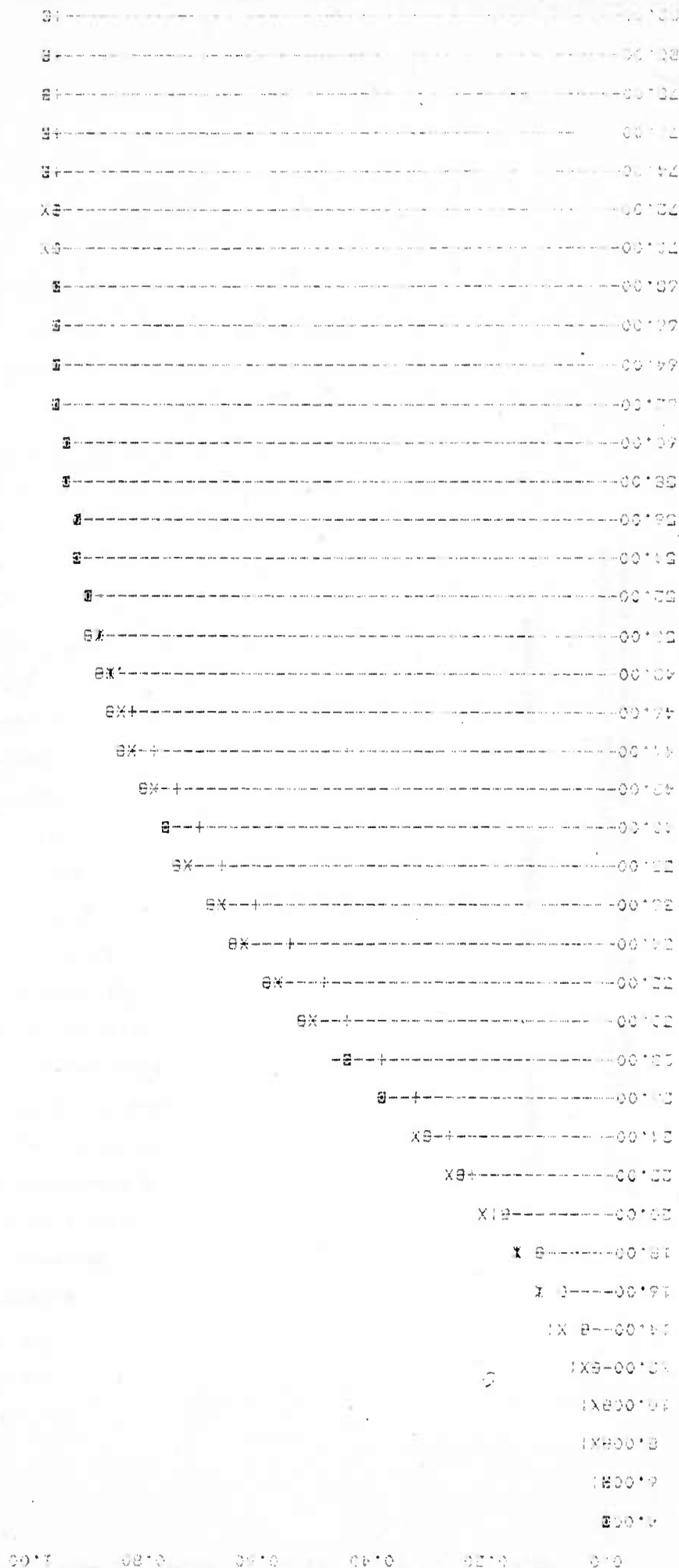


Figure 9a. Cumulative Distribution for Mountain

	Mountain	N	L	G
4.00	0.000	0.008	0.000	0.001
6.00	0.000	0.017	0.000	0.004
8.00	0.000	0.030	0.001	0.012
10.00	0.003	0.047	0.006	0.026
12.00	0.012	0.067	0.016	0.049
14.00	0.033	0.091	0.037	0.080
16.00	0.069	0.121	0.071	0.120
18.00	0.119	0.155	0.120	0.168
20.00	0.182	0.195	0.181	0.223
22.00	0.251	0.239	0.251	0.281
24.00	0.324	0.287	0.323	0.343
26.00	0.397	0.339	0.397	0.405
28.00	0.469	0.394	0.468	0.467
30.00	0.536	0.450	0.536	0.526
32.00	0.599	0.508	0.597	0.583
34.00	0.655	0.564	0.654	0.636
36.00	0.705	0.620	0.704	0.684
38.00	0.748	0.672	0.748	0.728
40.00	0.787	0.721	0.786	0.768
42.00	0.820	0.765	0.820	0.802
44.00	0.849	0.805	0.848	0.833
46.00	0.873	0.840	0.872	0.860
48.00	0.894	0.869	0.893	0.883
50.00	0.911	0.895	0.910	0.903
52.00	0.925	0.915	0.925	0.919
54.00	0.937	0.932	0.937	0.933
56.00	0.947	0.945	0.947	0.945
58.00	0.955	0.955	0.955	0.955
60.00	0.962	0.963	0.962	0.964
62.00	0.968	0.968	0.968	0.970
64.00	0.973	0.973	0.973	0.976
66.00	0.977	0.976	0.977	0.981
68.00	0.980	0.978	0.980	0.984
70.00	0.983	0.979	0.983	0.987
72.00	0.986	0.980	0.985	0.990
74.00	0.987	0.981	0.987	0.992
76.00	0.989	0.981	0.989	0.994
78.00	0.990	0.981	0.990	0.995
80.00	0.992	0.981	0.992	0.996
82.00	0.992	0.982	0.992	0.997

Figure 9b. Cumulative Distribution Data

MEAN 32.09 ST DEV 9.04 DOF 37 CHT2 MAX NORMAL 43.77***** GAMMA 10 424.34 947.97

(1) NORMAL (0) LOGNOR (X) GAMMA



Figure 10. Histogram for Mountain

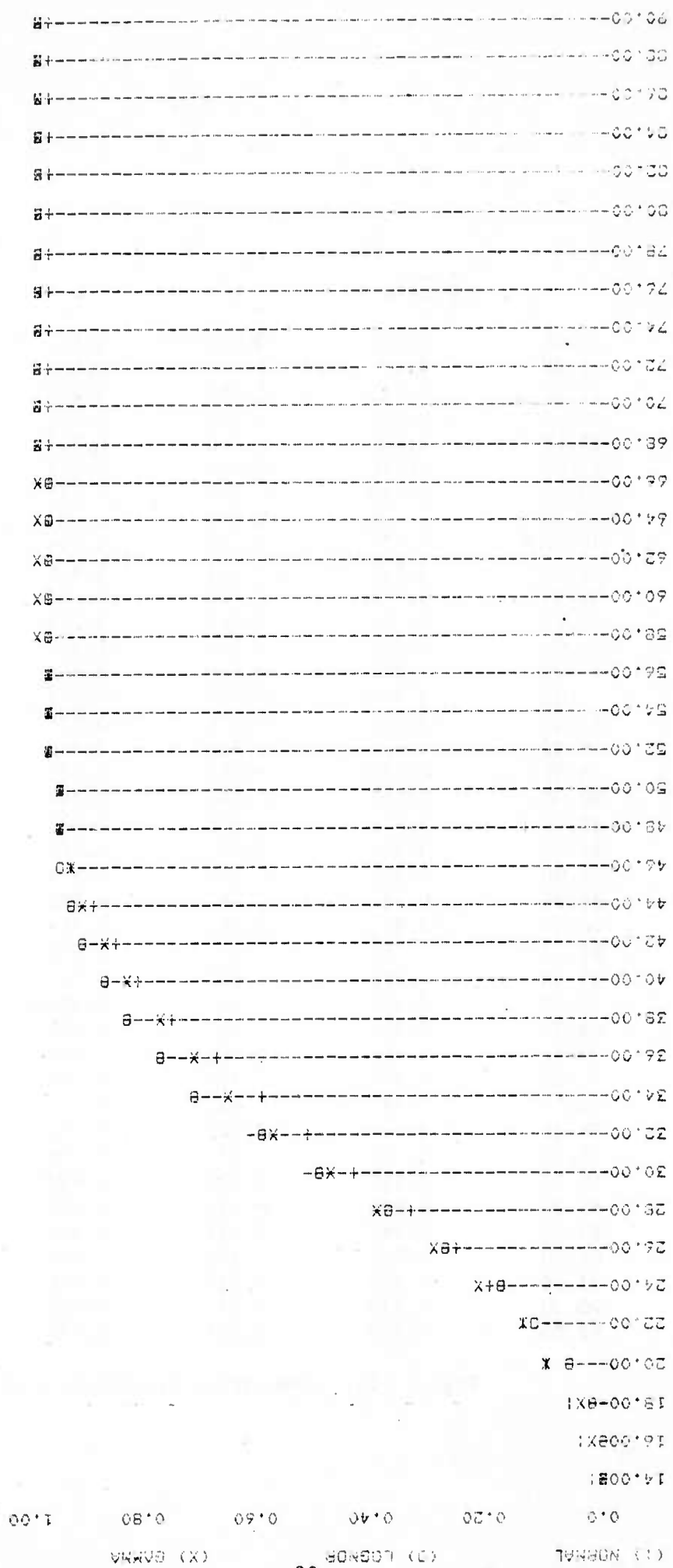


Figure 10a. Cumulative Distribution for Mountain

	Mountain	N	L	G
14.00	0.002	0.012	0.002	0.007
16.00	0.008	0.030	0.009	0.023
18.00	0.025	0.056	0.027	0.050
20.00	0.055	0.093	0.061	0.092
22.00	0.106	0.140	0.113	0.149
24.00	0.190	0.199	0.184	0.222
26.00	0.280	0.269	0.285	0.305
28.00	0.396	0.349	0.383	0.394
30.00	0.510	0.435	0.499	0.485
32.00	0.627	0.523	0.606	0.573
34.00	0.715	0.609	0.712	0.654
36.00	0.787	0.689	0.788	0.726
38.00	0.841	0.760	0.847	0.787
40.00	0.882	0.820	0.888	0.837
42.00	0.910	0.869	0.919	0.878
44.00	0.932	0.906	0.938	0.910
46.00	0.947	0.933	0.952	0.934
48.00	0.958	0.952	0.962	0.952
50.00	0.967	0.964	0.969	0.966
52.00	0.971	0.972	0.975	0.975
54.00	0.974	0.977	0.976	0.982
56.00	0.978	0.980	0.978	0.987
58.00	0.982	0.981	0.981	0.990
60.00	0.984	0.982	0.984	0.992
62.00	0.986	0.982	0.985	0.994
64.00	0.988	0.983	0.987	0.995
66.00	0.990	0.983	0.988	0.995
68.00	0.991	0.983	0.991	0.996
70.00	0.994	0.983	0.991	0.996
72.00	0.995	0.983	0.994	0.996
74.00	0.997	0.983	0.995	0.996
76.00	0.998	0.983	0.997	0.996
78.00	0.998	0.983	0.998	0.996
80.00	0.998	0.983	0.998	0.996
82.00	0.998	0.983	0.998	0.996
84.00	0.998	0.983	0.998	0.996
86.00	0.998	0.983	0.998	0.996
88.00	0.999	0.983	0.998	0.996
90.00	0.999	0.983	0.999	0.996
92.00	0.999	0.983	0.999	0.996

Figure 10b. Cumulative Distribution Data

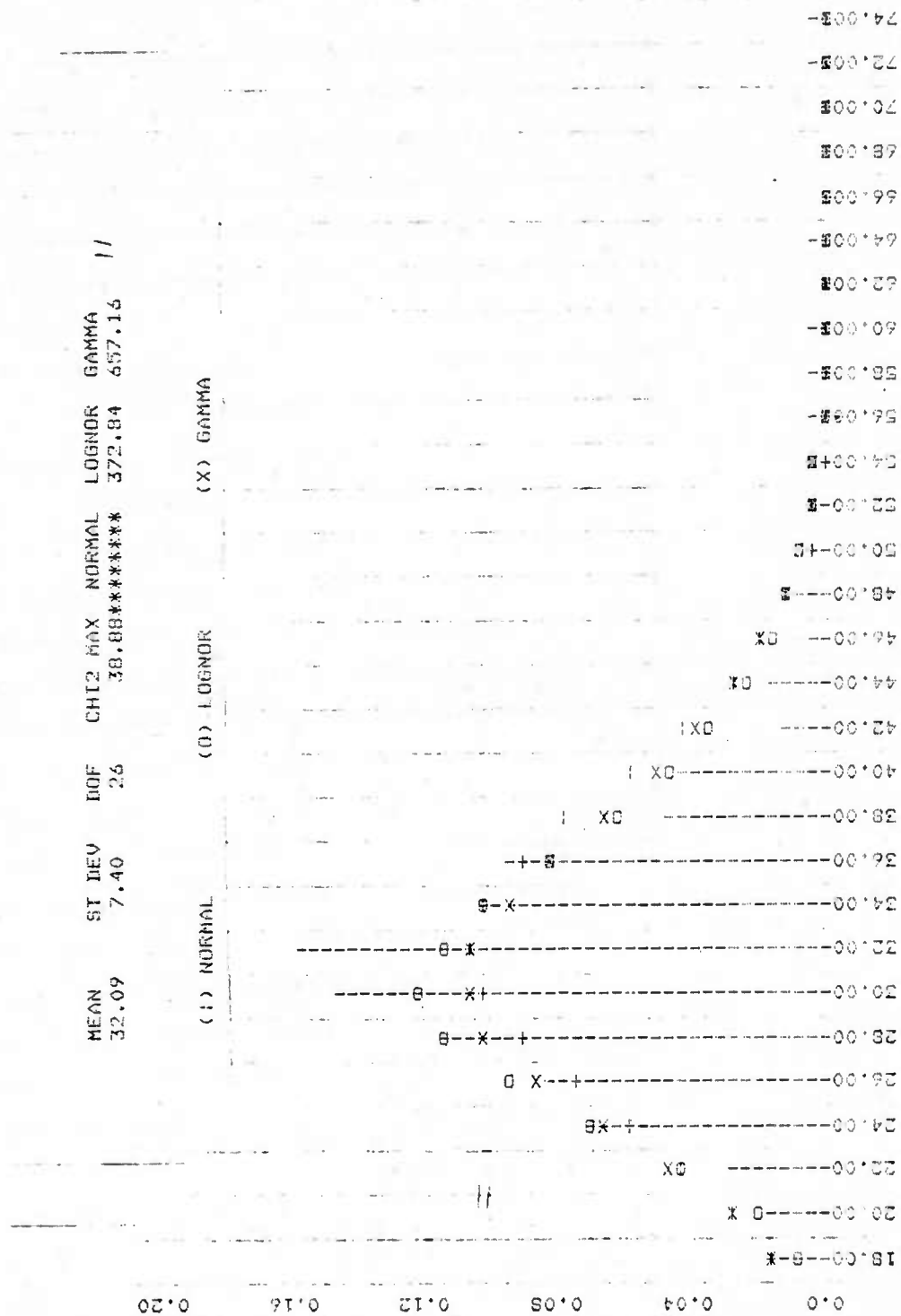


Figure 11. Histogram for Mountain

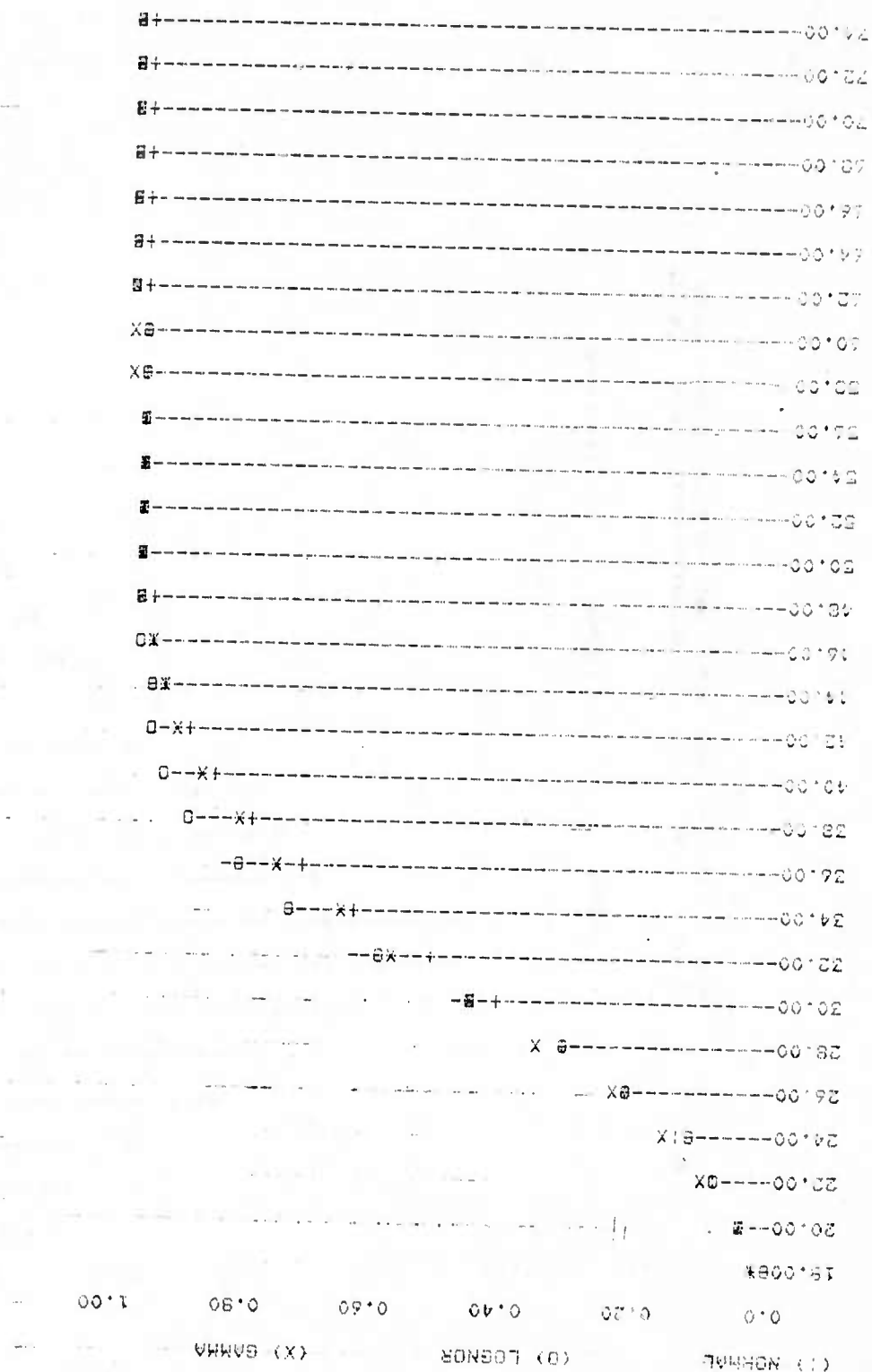


Figure 11a. Cumulative Distribution for Mountain

	Mountain	N	L	G
18.00	0.015	0.018	0.007	0.014
20.00	0.030	0.046	0.035	0.043
22.00	0.057	0.089	0.073	0.091
24.00	0.130	0.148	0.128	0.160
26.00	0.212	0.225	0.228	0.250
28.00	0.330	0.317	0.329	0.354
30.00	0.477	0.421	0.452	0.463
32.00	0.637	0.528	0.594	0.571
34.00	0.742	0.632	0.740	0.669
36.00	0.837	0.726	0.827	0.753
38.00	0.885	0.804	0.903	0.821
40.00	0.927	0.865	0.934	0.874
42.00	0.940	0.909	0.962	0.913
44.00	0.957	0.939	0.964	0.940
46.00	0.965	0.957	0.974	0.959
48.00	0.972	0.968	0.975	0.972
50.00	0.975	0.974	0.979	0.980
52.00	0.977	0.977	0.979	0.985
54.00	0.977	0.978	0.980	0.988
56.00	0.982	0.979	0.979	0.990
58.00	0.985	0.979	0.983	0.991
60.00	0.990	0.979	0.986	0.991
62.00	0.990	0.979	0.990	0.992
64.00	0.995	0.979	0.990	0.992
66.00	0.995	0.979	0.995	0.992
68.00	0.995	0.979	0.995	0.992
70.00	0.995	0.979	0.995	0.992
72.00	0.997	0.979	0.995	0.992
74.00	1.000	0.979	0.998	0.992

Figure 11b. Cumulative Distribution Data

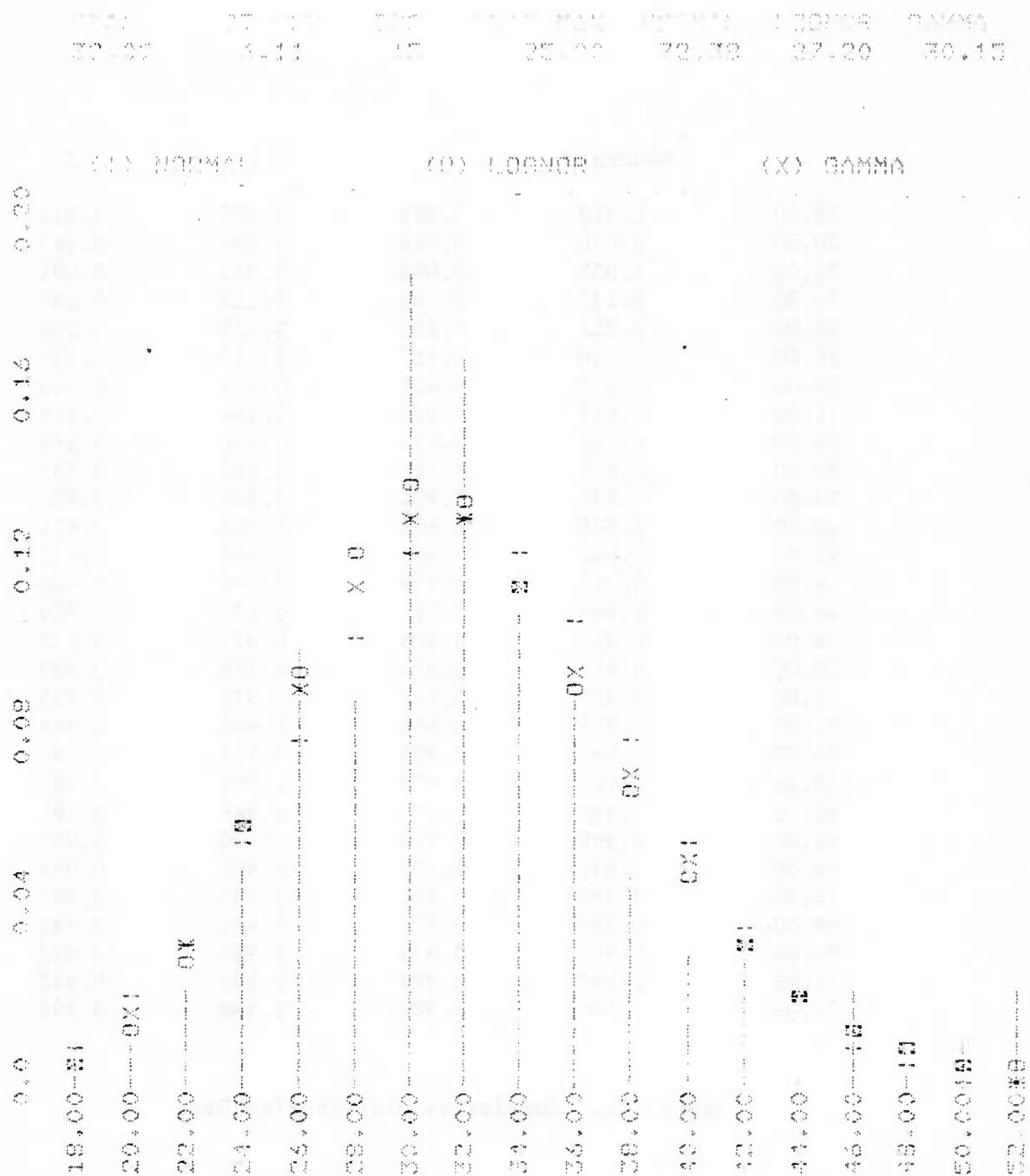


Figure 12. Histogram for Mountain

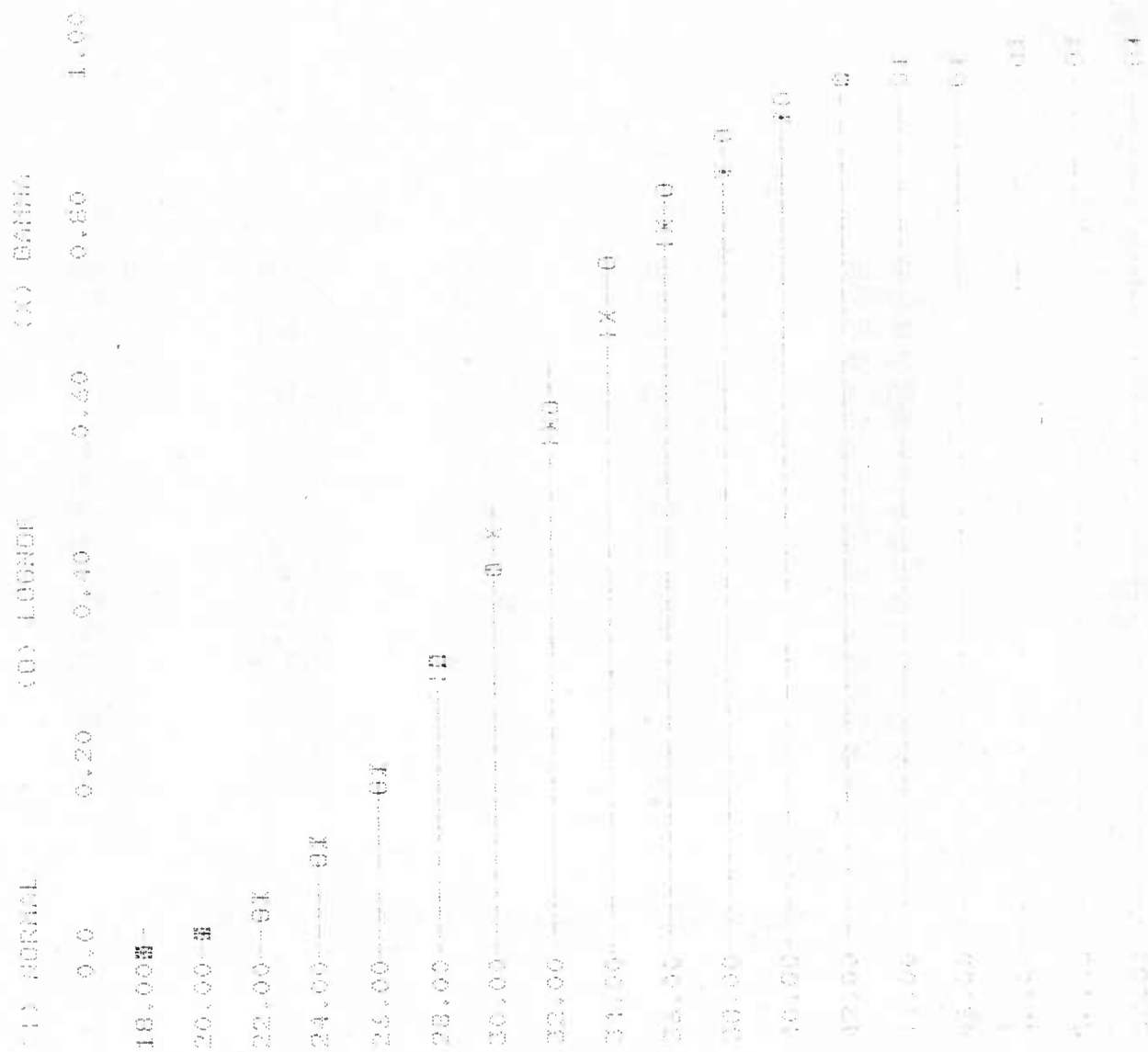


Figure 12a. Cumulative Distribution for Mountain

	Mountain	N	L	G
18.00	0.010	0.009	0.003	0.005
20.00	0.020	0.028	0.021	0.020
22.00	0.040	0.062	0.049	0.054
24.00	0.090	0.116	0.100	0.115
26.00	0.190	0.196	0.186	0.205
28.00	0.280	0.300	0.315	0.322
30.00	0.470	0.422	0.419	0.452
32.00	0.640	0.553	0.605	0.582
34.00	0.750	0.676	0.757	0.699
36.00	0.840	0.783	0.843	0.795
38.00	0.890	0.864	0.909	0.867
40.00	0.920	0.921	0.937	0.918
42.00	0.950	0.956	0.951	0.952
44.00	0.950	0.976	0.969	0.972
46.00	0.970	0.986	0.962	0.985
48.00	0.970	0.990	0.977	0.991
50.00	0.980	0.992	0.974	0.995
52.00	1.000	0.993	0.982	0.997

Figure 12b. Cumulative Distribution Data

MEAN 12.38 ST DEV 4.92 DOF 21 CHI2 MAX 32.67 NORMAL LOGNOR GAMMA 6225.95
 12.38 4.92 21 32.67*****24722.88 6225.95

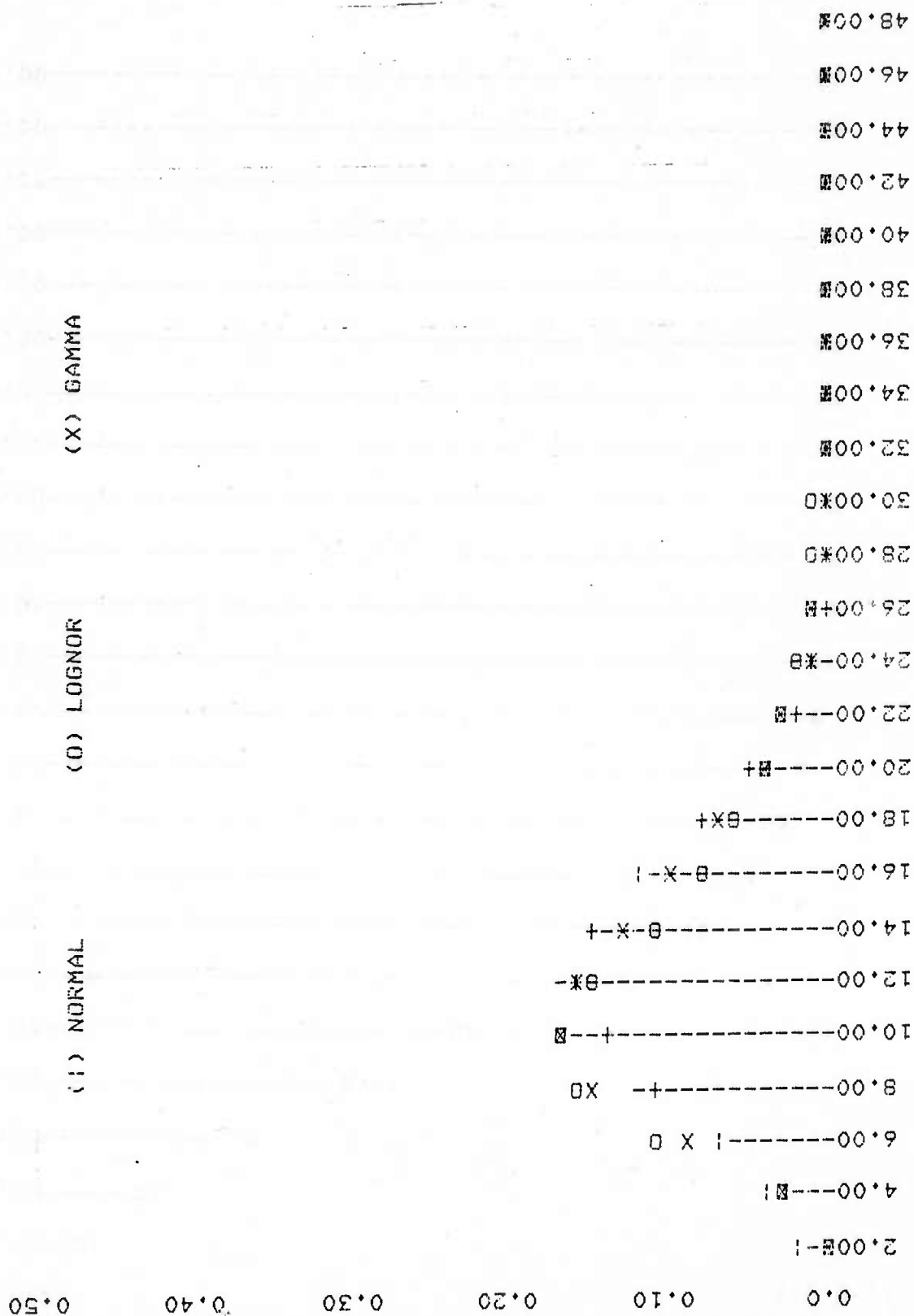


Figure 13. Histogram for Pack Ice

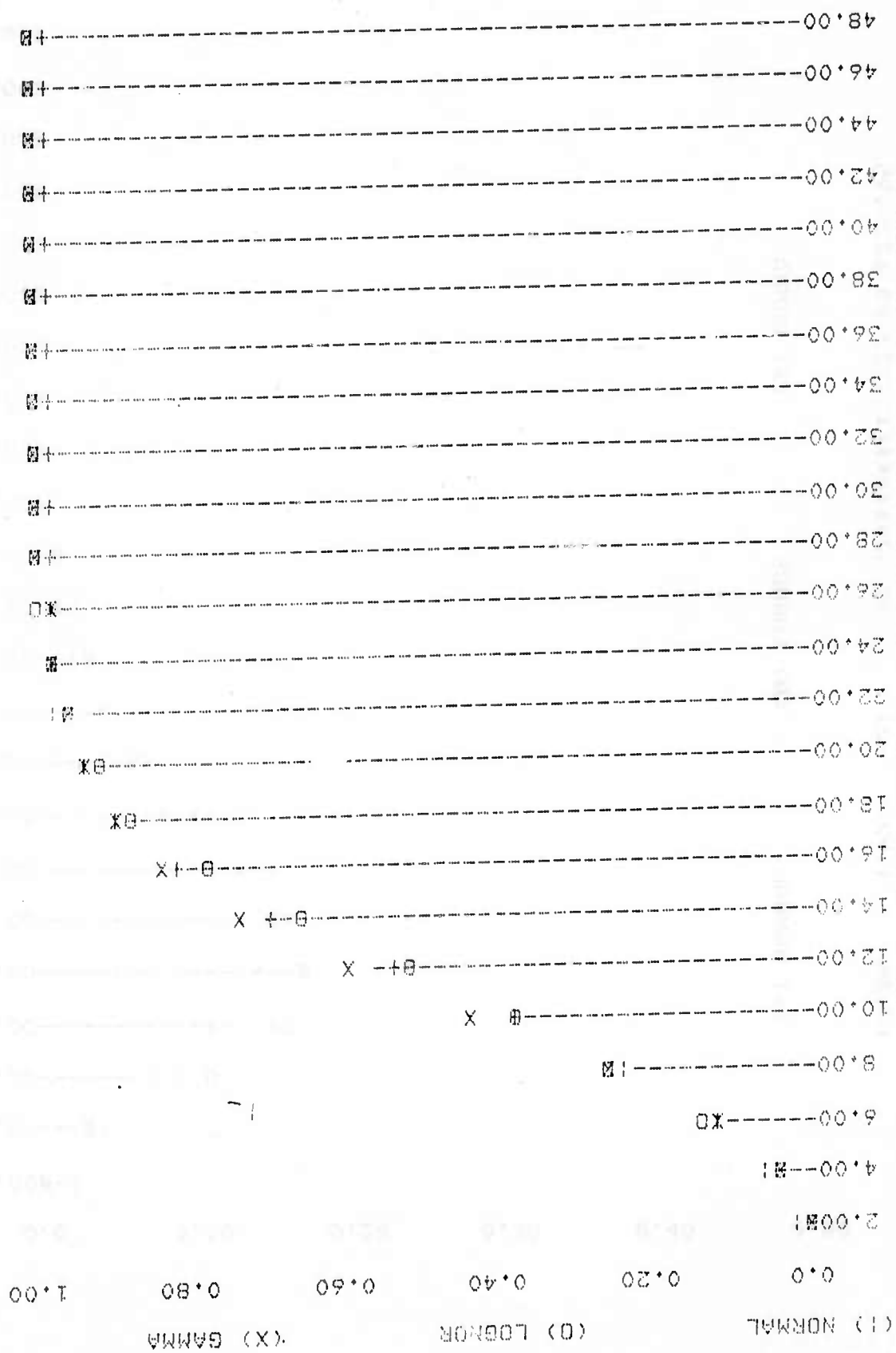


Figure 13a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
2.00	0.007	0.018	0.001	0.003
4.00	0.032	0.056	0.039	0.033
6.00	0.096	0.127	0.138	0.120
8.00	0.218	0.236	0.259	0.265
10.00	0.378	0.379	0.388	0.437
12.00	0.551	0.540	0.525	0.601
14.00	0.701	0.693	0.666	0.736
16.00	0.815	0.816	0.784	0.834
18.00	0.890	0.901	0.874	0.901
20.00	0.938	0.950	0.931	0.944
22.00	0.967	0.974	0.965	0.969
24.00	0.983	0.985	0.985	0.983
26.00	0.991	0.988	0.995	0.991
28.00	0.995	0.989	0.999	0.996
30.00	0.998	0.990	1.001	0.998
32.00	0.999	0.990	1.001	0.999
34.00	0.999	0.990	1.001	0.999
36.00	1.000	0.990	1.001	1.000
38.00	1.000	0.990	1.001	1.000
40.00	1.000	0.990	1.001	1.000
42.00	1.000	0.990	1.001	1.000
44.00	1.000	0.990	1.000	1.000
46.00	1.000	0.990	1.000	1.000
48.00	1.000	0.990	1.000	1.000

Figure 13b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
12.28	3.03	8	15.51	82.14	430.86	299.73

(I) NORMAL (O) LOGNOR (X) GAMMA

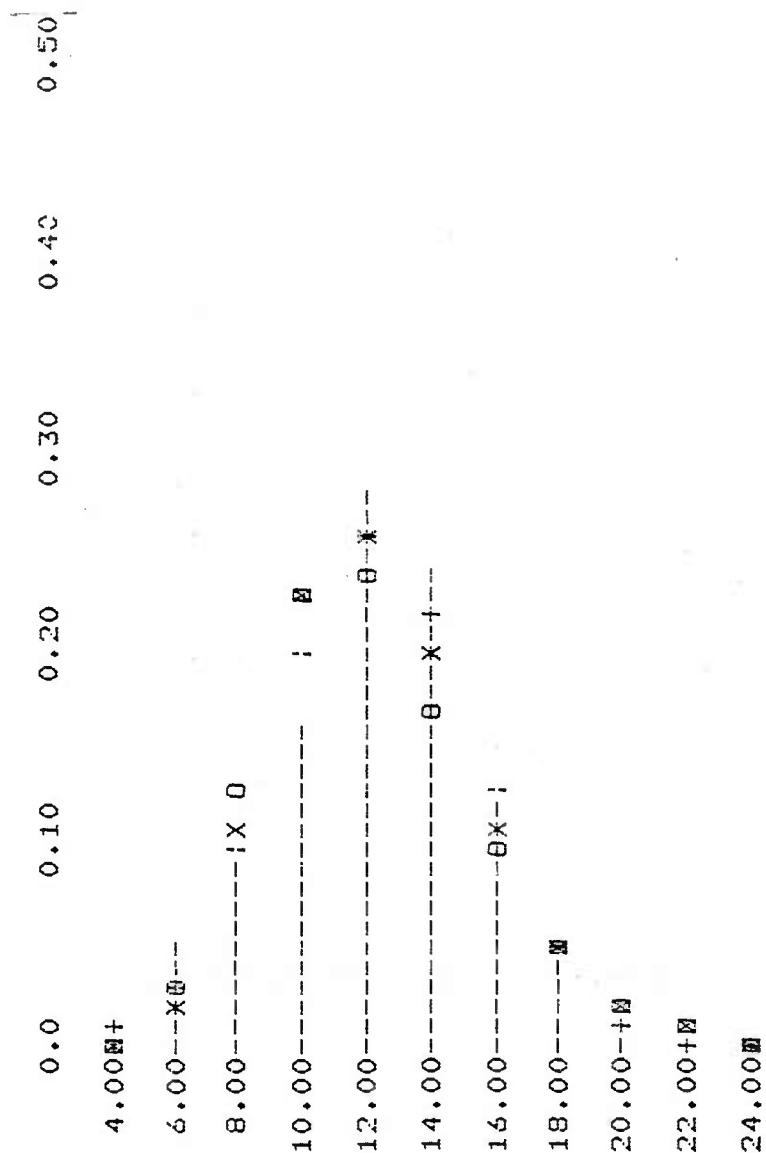


Figure 14. Histogram for Pack Ice

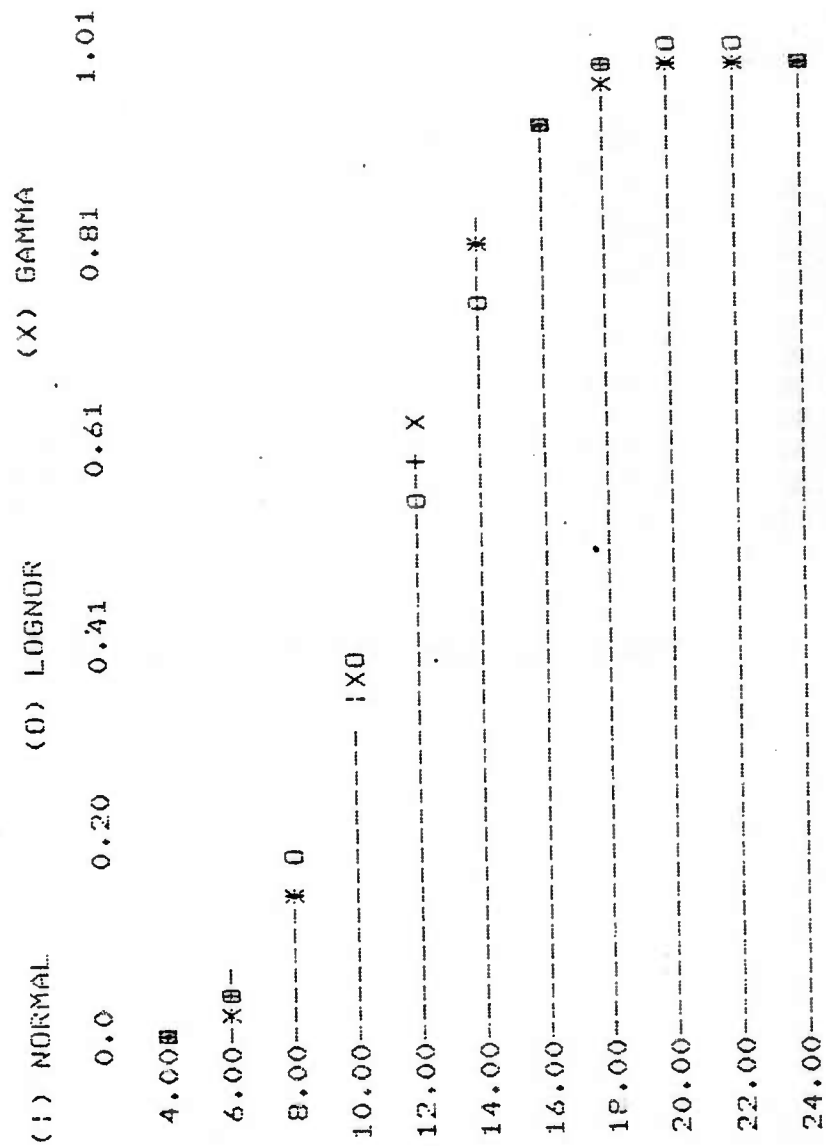


Figure 14a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
4.00	0.007	0.007	0.001	0.001
6.00	0.057	0.040	0.034	0.023
8.00	0.149	0.139	0.186	0.133
10.00	0.305	0.335	0.383	0.361
12.00	0.587	0.592	0.544	0.623
14.00	0.823	0.814	0.760	0.821
16.00	0.943	0.939	0.925	0.929
18.00	0.990	0.985	0.995	0.976
20.00	0.997	0.997	1.014	0.993
22.00	0.998	0.999	1.008	0.998
24.00	1.000	0.999	1.003	1.000

Figure 14b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
12.23	2.77	6	12.59	47.57	115.24	109.68

(I) NORMAL

(O) LOGNOR

(X) GAMMA

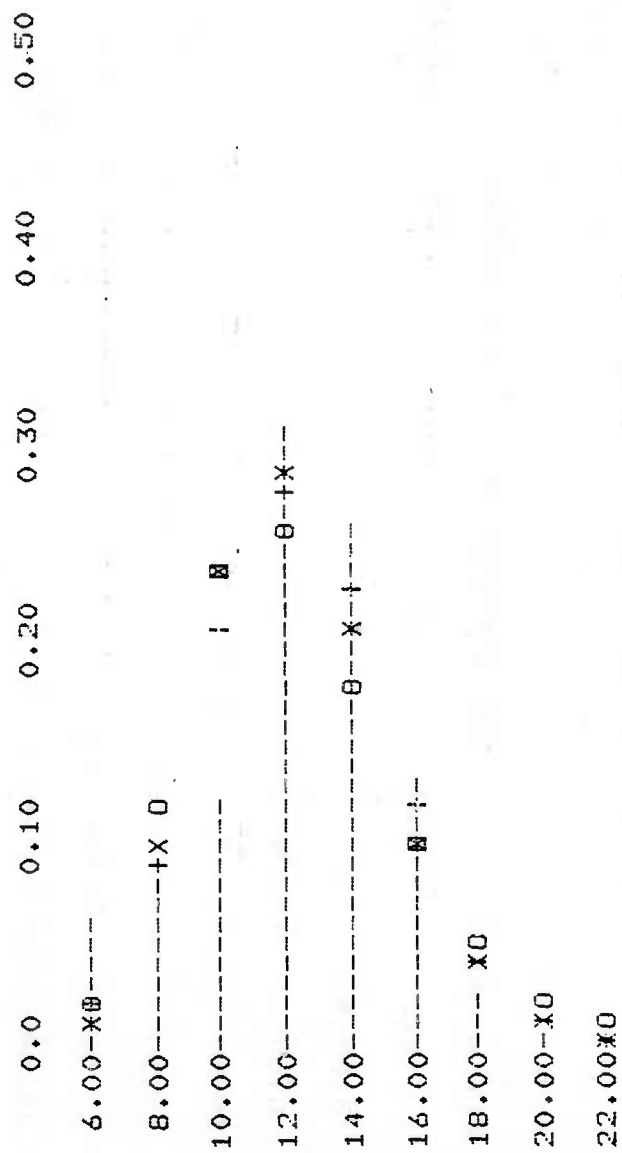


Figure 15. Histogram for Pack Ice

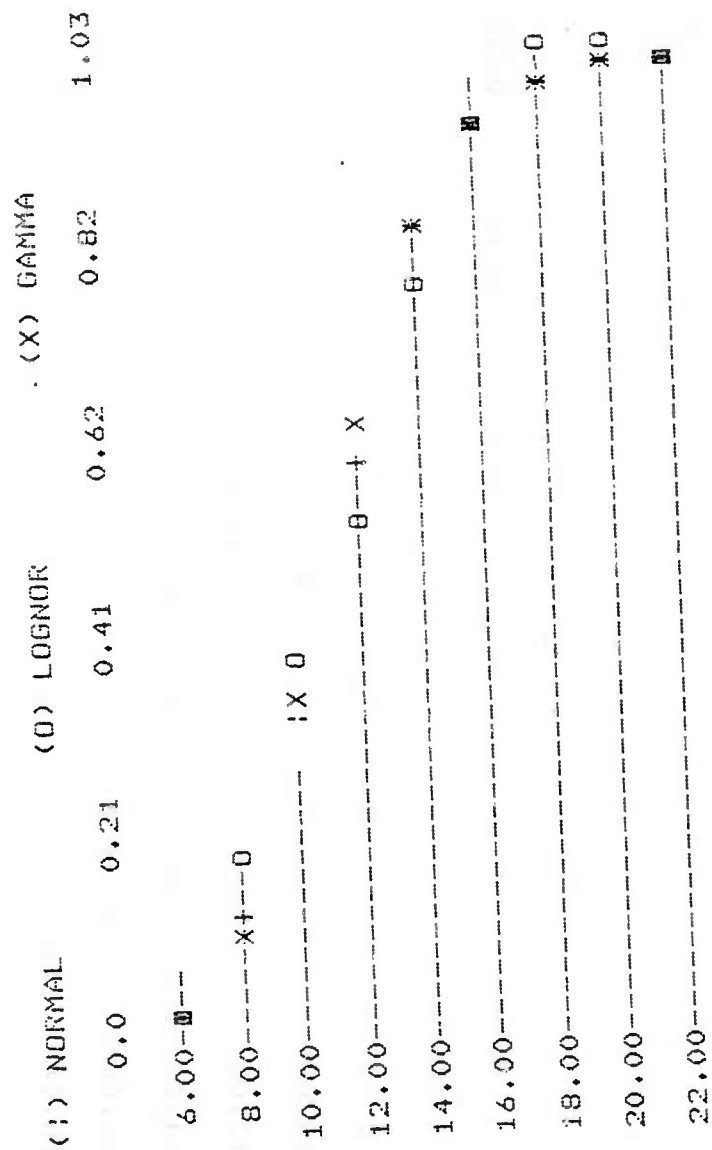


Figure 15a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
6.00	0.061	0.025	0.018	0.014
8.00	0.154	0.117	0.178	0.112
10.00	0.275	0.323	0.399	0.349
12.00	0.590	0.605	0.535	0.635
14.00	0.848	0.837	0.773	0.843
16.00	0.979	0.953	0.948	0.946
18.00	0.998	0.988	1.025	0.985
20.00	0.998	0.995	1.017	0.996
22.00	0.998	0.995	1.005	0.999

Figure 15b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
12.18	2.64	5	11.07	27.08	46.79	44.18

(.) NORMAL

(O) LOGNOR

(X) GAMMA

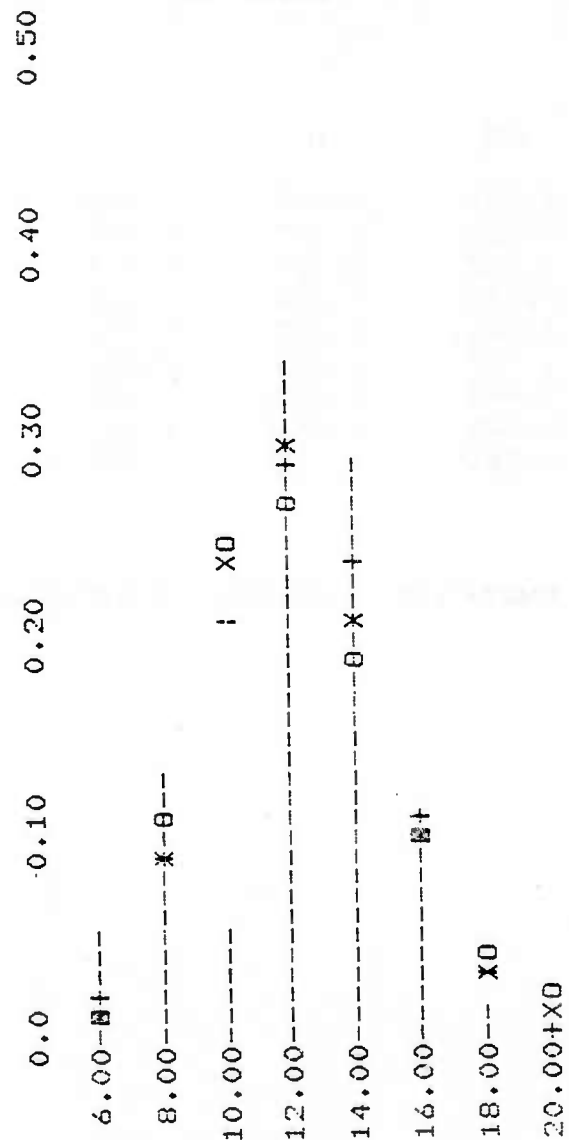


Figure 16. Histogram for Pack Ice

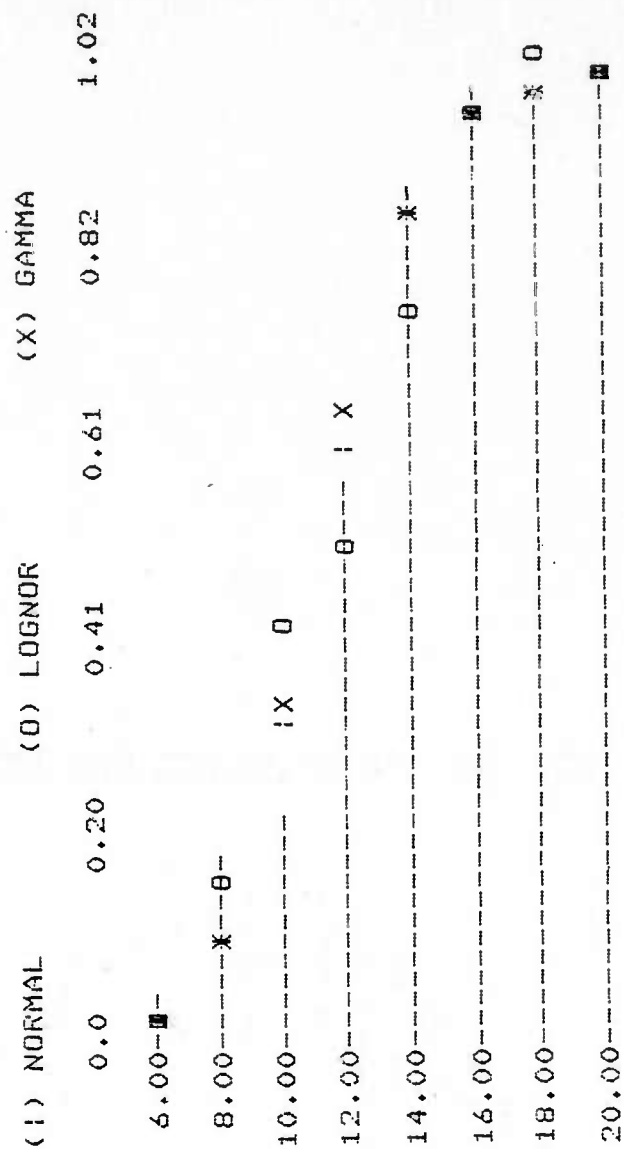


Figure 16a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
6.00	0.050	0.022	0.013	0.012
8.00	0.185	0.111	0.160	0.105
10.00	0.235	0.325	0.438	0.349
12.00	0.580	0.619	0.509	0.647
14.00	0.874	0.854	0.768	0.857
16.00	0.983	0.963	0.971	0.955
18.00	0.992	0.992	1.024	0.989
20.00	0.992	0.996	1.007	0.997

Figure 16b. Cumulative Distribution Data

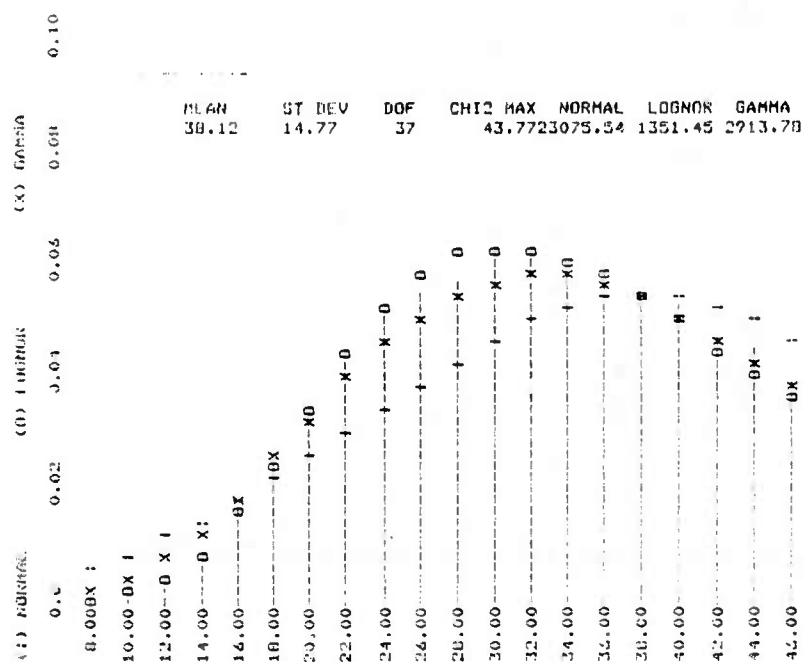


Figure 17. Histogram for Pack Ice

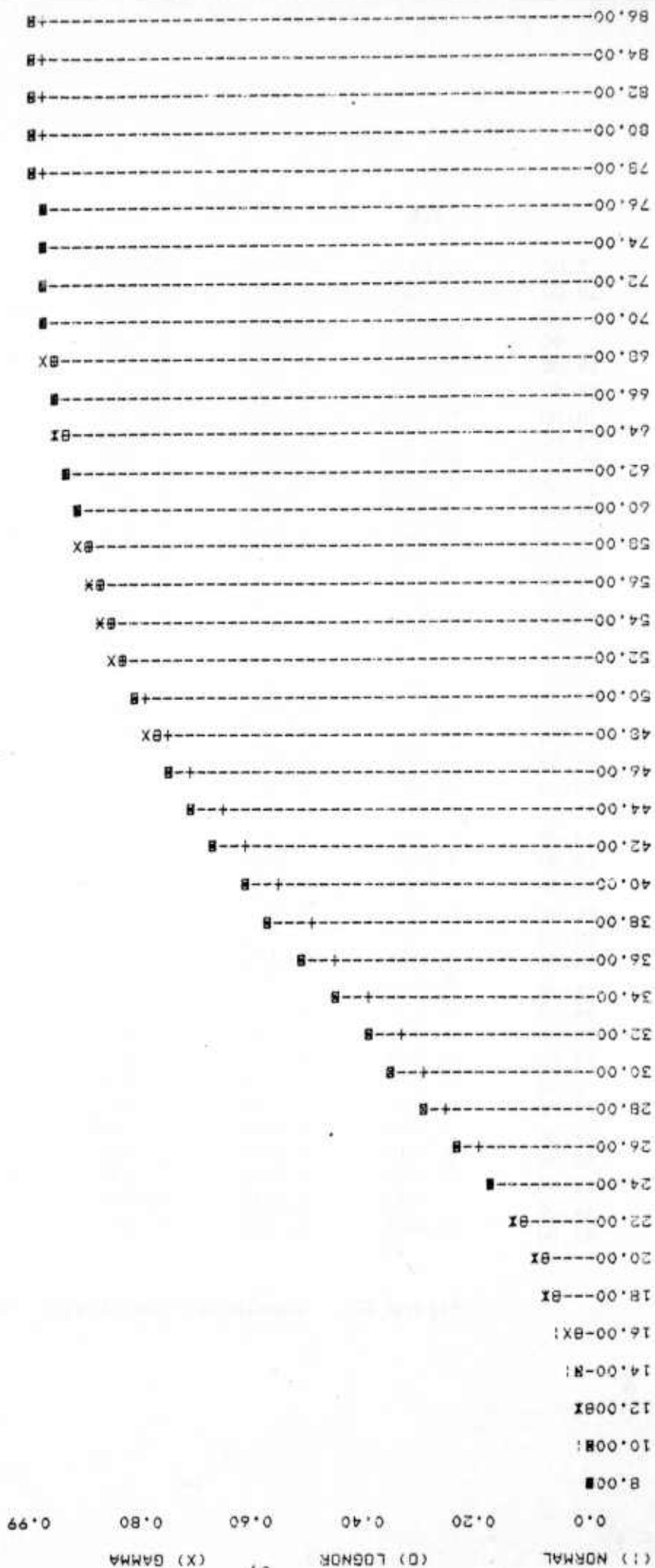
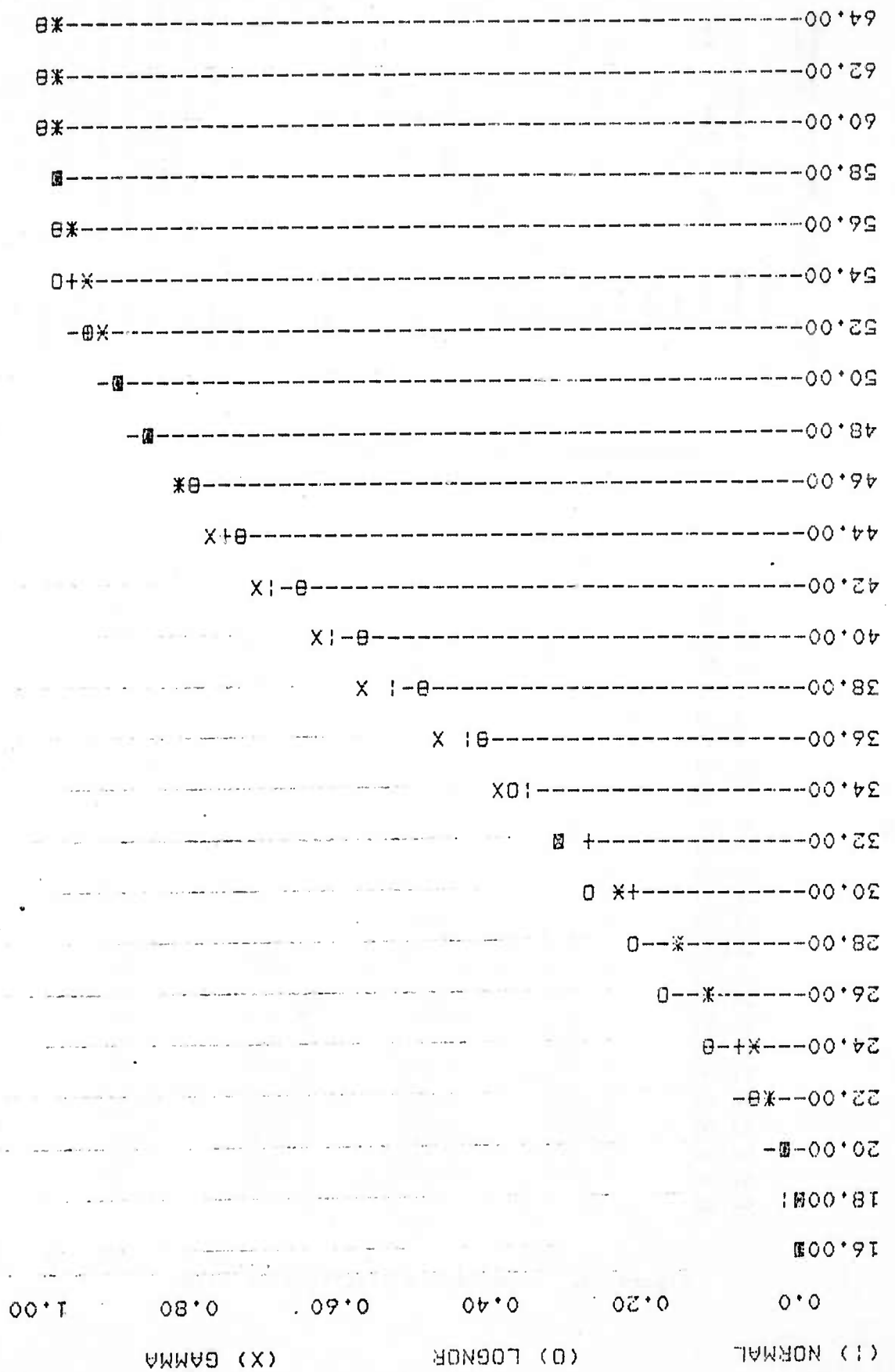


Figure 17a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
8.00	0.000	0.007	0.000	0.002
10.00	0.000	0.016	0.001	0.005
12.00	0.003	0.027	0.004	0.013
14.00	0.010	0.041	0.011	0.025
16.00	0.027	0.059	0.026	0.044
18.00	0.051	0.080	0.051	0.070
20.00	0.085	0.106	0.086	0.103
22.00	0.127	0.135	0.129	0.142
24.00	0.177	0.170	0.178	0.188
26.00	0.230	0.208	0.234	0.239
28.00	0.286	0.251	0.291	0.293
30.00	0.345	0.297	0.349	0.350
32.00	0.405	0.347	0.408	0.408
34.00	0.463	0.399	0.465	0.465
36.00	0.520	0.452	0.520	0.521
38.00	0.572	0.506	0.573	0.574
40.00	0.623	0.560	0.622	0.625
42.00	0.669	0.612	0.668	0.672
44.00	0.712	0.662	0.709	0.715
46.00	0.750	0.709	0.748	0.734
48.00	0.785	0.752	0.782	0.789
50.00	0.815	0.791	0.812	0.820
52.00	0.842	0.826	0.839	0.847
54.00	0.866	0.856	0.863	0.871
56.00	0.886	0.882	0.884	0.892
58.00	0.904	0.904	0.902	0.909
60.00	0.919	0.922	0.918	0.925
62.00	0.933	0.936	0.931	0.938
64.00	0.944	0.948	0.943	0.948
66.00	0.954	0.957	0.952	0.958
68.00	0.962	0.964	0.961	0.965
70.00	0.968	0.969	0.968	0.972
72.00	0.974	0.973	0.974	0.977
74.00	0.978	0.976	0.978	0.981
76.00	0.982	0.978	0.982	0.985
78.00	0.985	0.980	0.986	0.988
80.00	0.988	0.981	0.988	0.990
82.00	0.990	0.981	0.990	0.992
84.00	0.992	0.982	0.992	0.993
86.00	0.994	0.982	0.994	0.995

Figure 17b. Cumulative Distribution Data



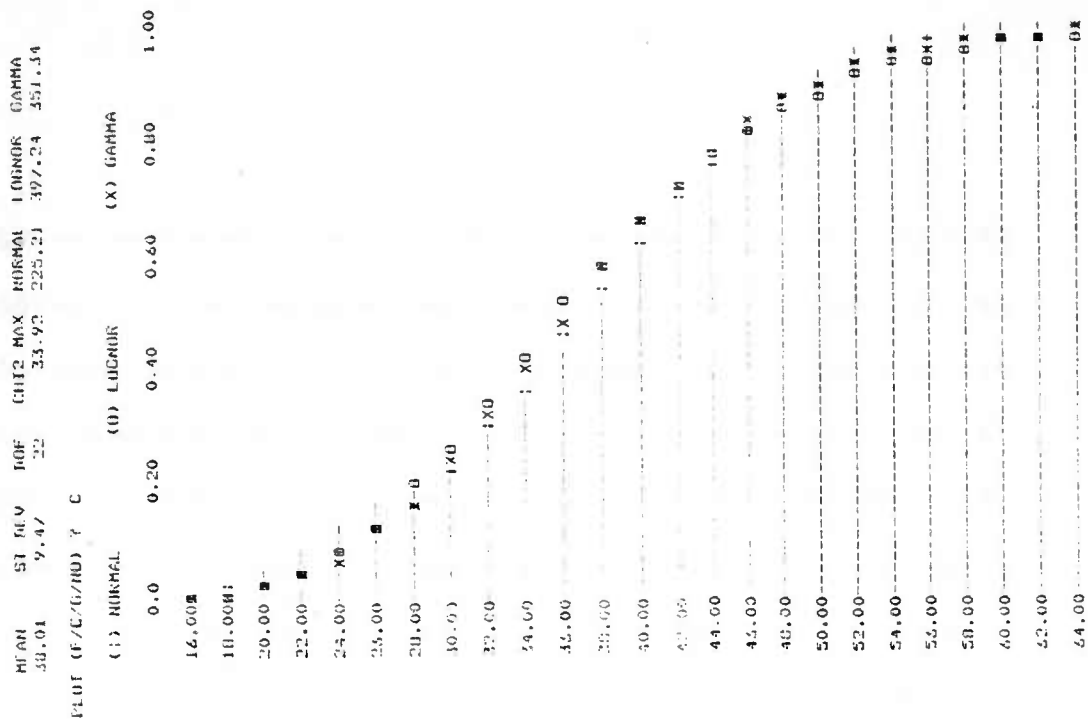


Figure 18a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
16.00	0.001	0.006	0.002	0.002
18.00	0.008	0.015	0.006	0.007
20.00	0.033	0.029	0.020	0.018
22.00	0.076	0.049	0.056	0.037
24.00	0.127	0.077	0.111	0.068
26.00	0.166	0.115	0.177	0.112
28.00	0.198	0.163	0.230	0.169
30.00	0.243	0.222	0.272	0.239
32.00	0.289	0.291	0.323	0.318
34.00	0.346	0.368	0.372	0.403
36.00	0.424	0.450	0.428	0.489
38.00	0.514	0.534	0.501	0.573
40.00	0.597	0.616	0.584	0.651
42.00	0.682	0.693	0.660	0.721
44.00	0.762	0.762	0.736	0.781
46.00	0.830	0.821	0.808	0.832
48.00	0.881	0.869	0.868	0.873
50.00	0.922	0.907	0.912	0.906
52.00	0.955	0.936	0.947	0.931
54.00	0.970	0.956	0.975	0.951
56.00	0.980	0.970	0.985	0.965
58.00	0.992	0.979	0.993	0.975
60.00	0.995	0.985	1.001	0.983
62.00	0.998	0.988	1.003	0.986
64.00	0.999	0.990	1.004	0.992

Figure 18b. Cumulative Distribution Data

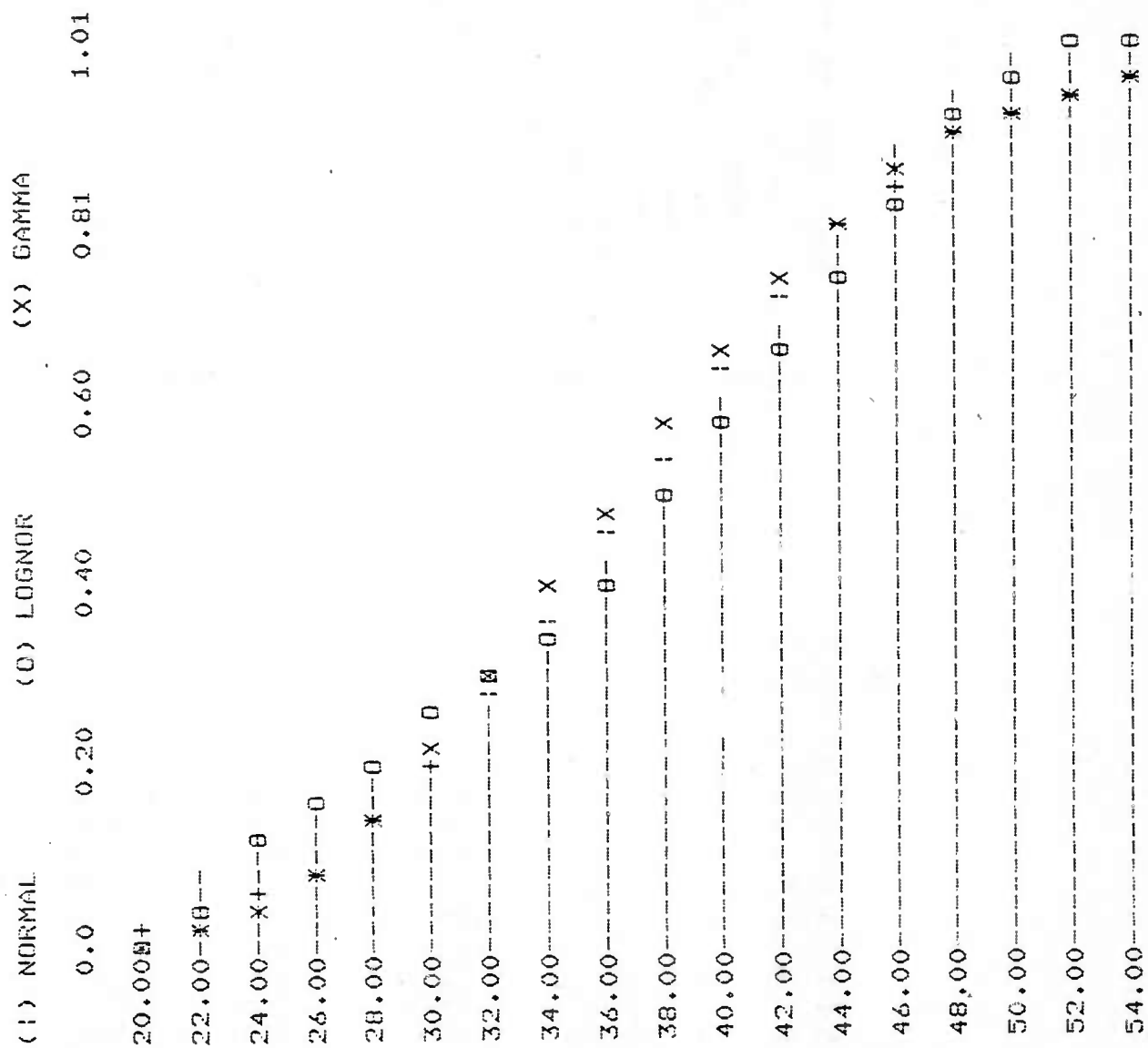


Figure 19. Histogram for Pack Ice (Nonhomogeneous)

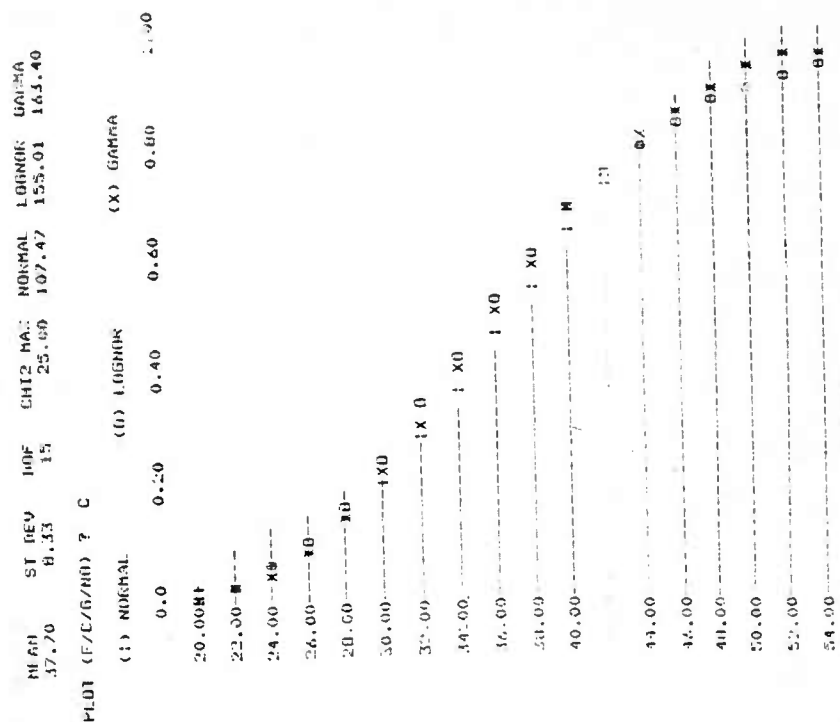


Figure 19a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
20.00	0.020	0.010	0.008	0.005
22.00	0.082	0.026	0.038	0.020
24.00	0.127	0.051	0.112	0.045
26.00	0.145	0.087	0.170	0.054
28.00	0.177	0.136	0.209	0.141
30.00	0.207	0.198	0.255	0.213
32.00	0.257	0.274	0.294	0.300
34.00	0.323	0.360	0.348	0.395
36.00	0.425	0.454	0.413	0.492
38.00	0.509	0.549	0.510	0.587
40.00	0.595	0.641	0.585	0.673
42.00	0.684	0.725	0.662	0.749
44.00	0.786	0.797	0.740	0.812
46.00	0.884	0.855	0.833	0.863
48.00	0.941	0.900	0.921	0.902
50.00	0.982	0.932	0.970	0.931
52.00	0.991	0.954	1.005	0.957
54.00	1.000	0.969	1.008	0.965

Figure 19b. Cumulative Distribution Data

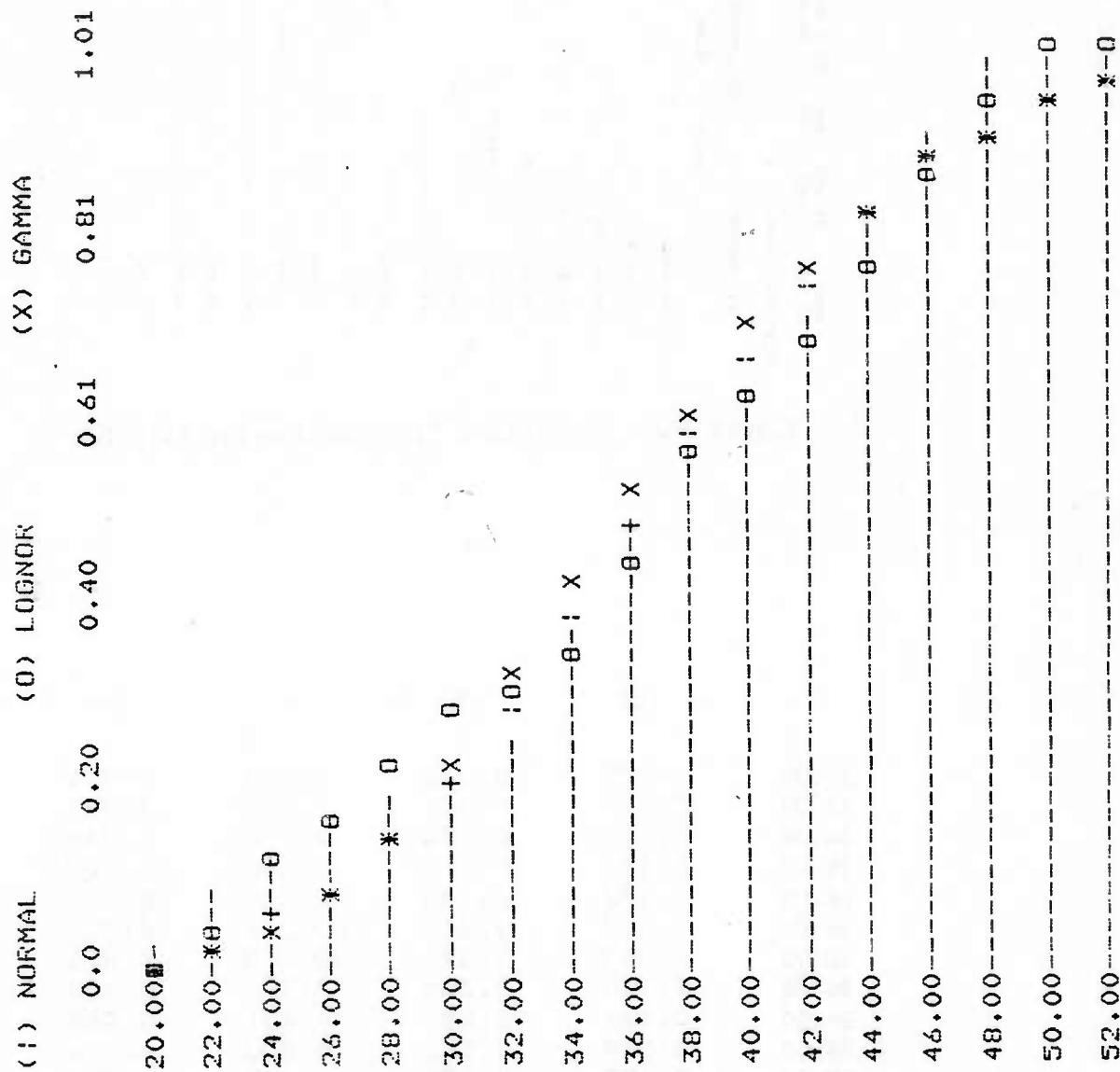


Figure 20. Histogram for Pack Ice (Nonhomogeneous)

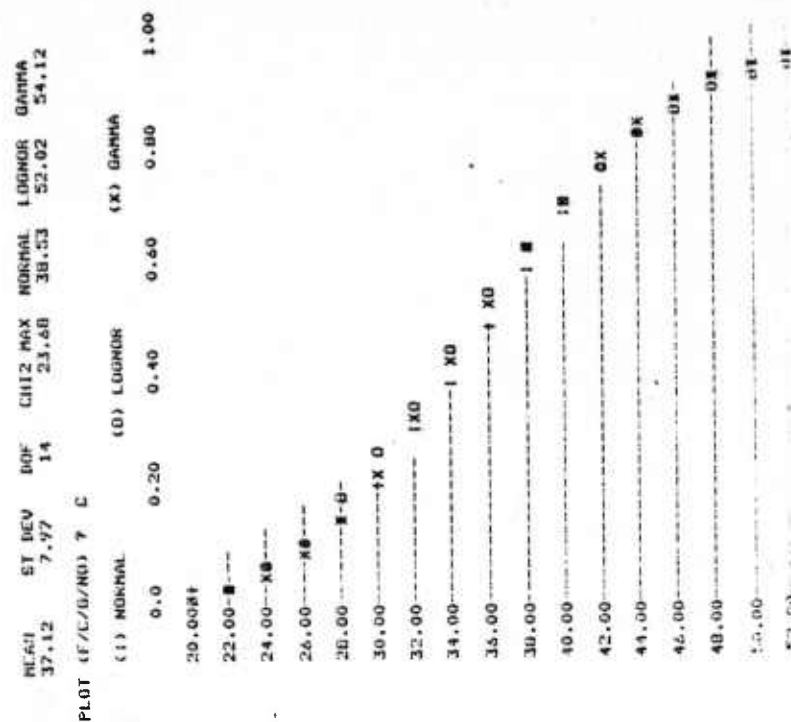


Figure 20a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
20.00	0.025	0.010	0.008	0.006
22.00	0.083	0.027	0.042	0.020
24.00	0.117	0.053	0.115	0.046
26.00	0.158	0.091	0.166	0.088
28.00	0.192	0.143	0.225	0.148
30.00	0.208	0.210	0.274	0.226
32.00	0.242	0.291	0.300	0.318
34.00	0.358	0.384	0.337	0.418
36.00	0.483	0.482	0.451	0.519
38.00	0.558	0.582	0.570	0.616
40.00	0.625	0.675	0.635	0.703
42.00	0.717	0.758	0.691	0.777
44.00	0.833	0.827	0.771	0.837
46.00	0.908	0.881	0.877	0.885
48.00	0.983	0.921	0.943	0.920
50.00	0.992	0.948	1.010	0.946
52.00	1.000	0.965	1.012	0.963

Figure 20b. Cumulative Distribution Data

MEAN 36.09 ST DEV 13.42 DOF 37 CHI2 MAX 43.7730230.86 LOGNOR 1358.58 GAMMA 4224.86

(1) NORMAL (0) LOGNOR (X) GAMMA

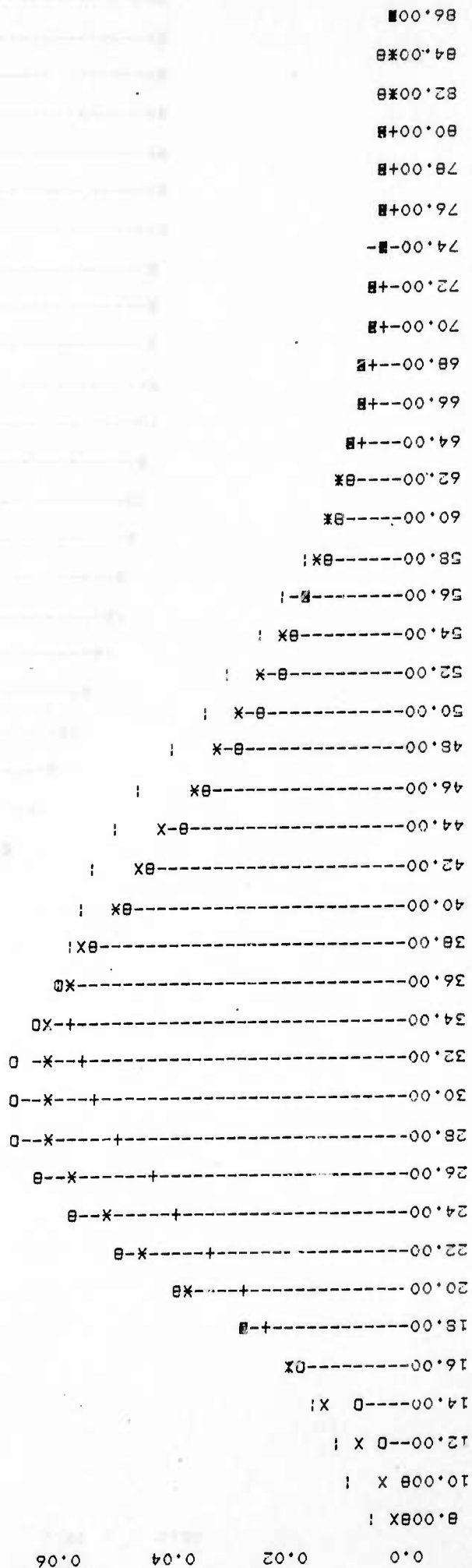


Figure 21. Histogram for Pack Ice

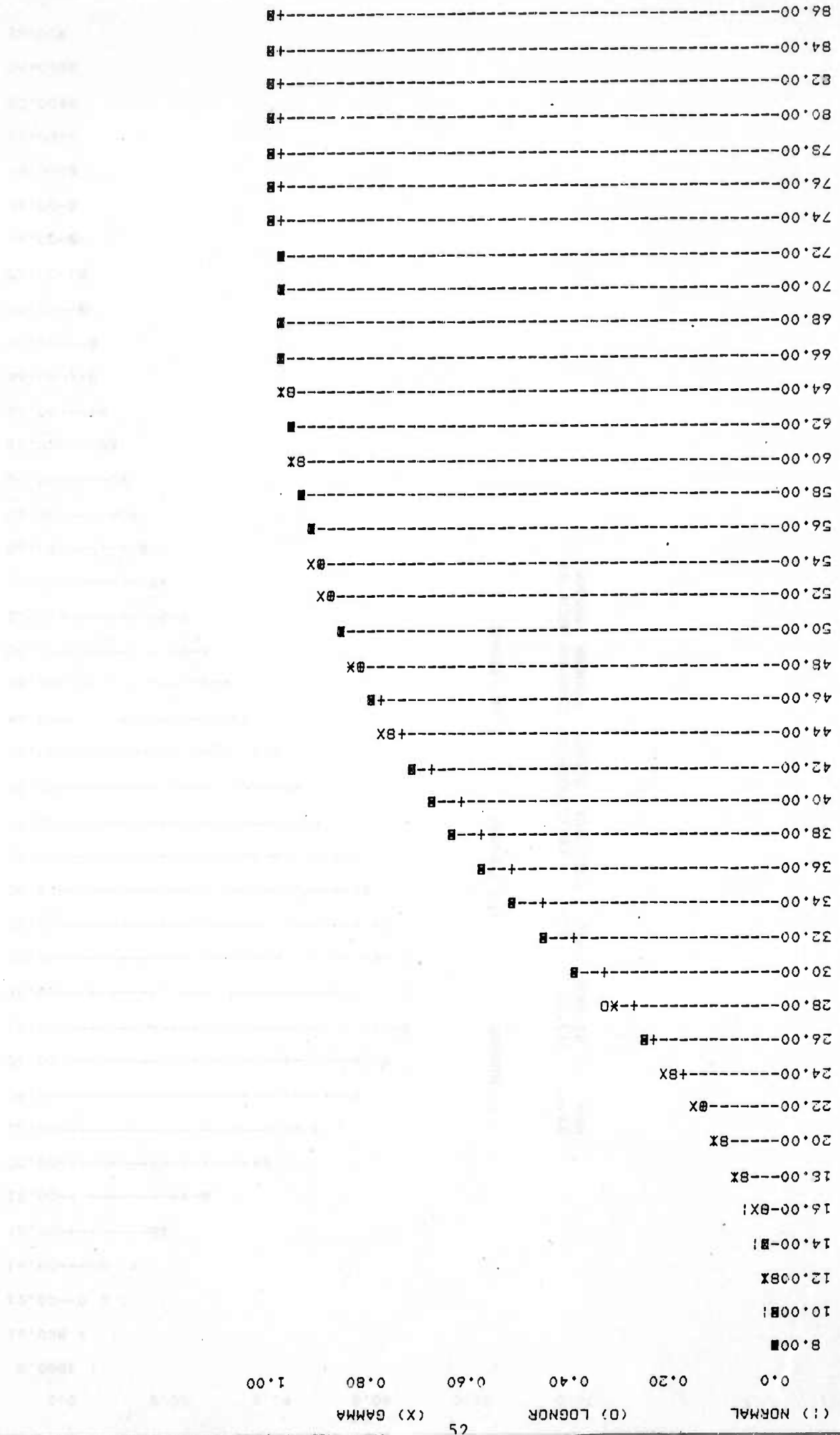


Figure 21a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
8.00	0.000	0.007	0.000	0.001
10.00	0.000	0.016	0.001	0.005
12.00	0.002	0.028	0.004	0.013
14.00	0.009	0.043	0.011	0.026
16.00	0.025	0.062	0.027	0.047
18.00	0.051	0.086	0.053	0.076
20.00	0.091	0.115	0.090	0.113
22.00	0.141	0.150	0.141	0.159
24.00	0.200	0.189	0.200	0.211
26.00	0.263	0.234	0.264	0.268
28.00	0.329	0.284	0.331	0.329
30.00	0.395	0.337	0.398	0.392
32.00	0.460	0.394	0.462	0.455
34.00	0.520	0.453	0.523	0.517
36.00	0.577	0.512	0.579	0.576
38.00	0.631	0.571	0.632	0.631
40.00	0.680	0.628	0.680	0.682
42.00	0.724	0.682	0.724	0.728
44.00	0.763	0.732	0.762	0.769
46.00	0.799	0.777	0.796	0.806
48.00	0.830	0.817	0.827	0.838
50.00	0.857	0.852	0.854	0.866
52.00	0.880	0.881	0.878	0.889
54.00	0.900	0.906	0.898	0.909
56.00	0.918	0.925	0.915	0.926
58.00	0.933	0.941	0.931	0.940
60.00	0.945	0.953	0.943	0.952
62.00	0.955	0.963	0.954	0.961
64.00	0.964	0.969	0.963	0.969
66.00	0.971	0.974	0.970	0.975
68.00	0.977	0.978	0.976	0.980
70.00	0.982	0.980	0.981	0.984
72.00	0.986	0.982	0.985	0.988
74.00	0.989	0.983	0.989	0.990
76.00	0.991	0.984	0.991	0.992
78.00	0.993	0.984	0.993	0.994
80.00	0.995	0.985	0.995	0.995
82.00	0.996	0.985	0.996	0.996
84.00	0.997	0.985	0.997	0.997
86.00	0.998	0.985	0.998	0.998

Figure 21b. Cumulative Distribution Data

MEAN 34.09
 ST DEV 6.14
 DOF 20
 CHI2 MAX 31.41
 NORMAL 501.03
 LOGNOR 40.73
 GAMMA 43.11

(X) GAMMA

(O) LOGNOR

(I) NORMAL

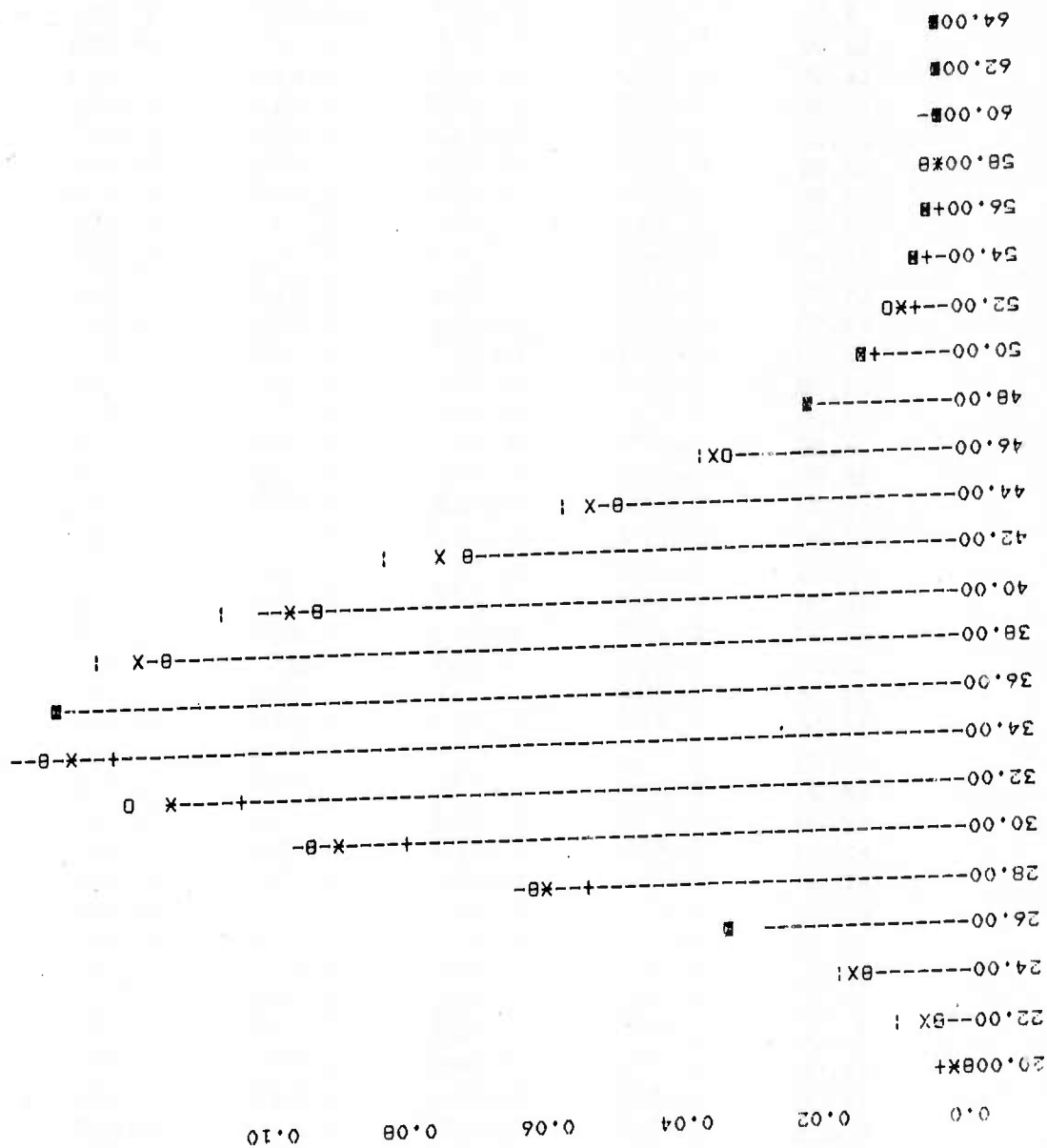


Figure 22. Histogram for Pack Ice

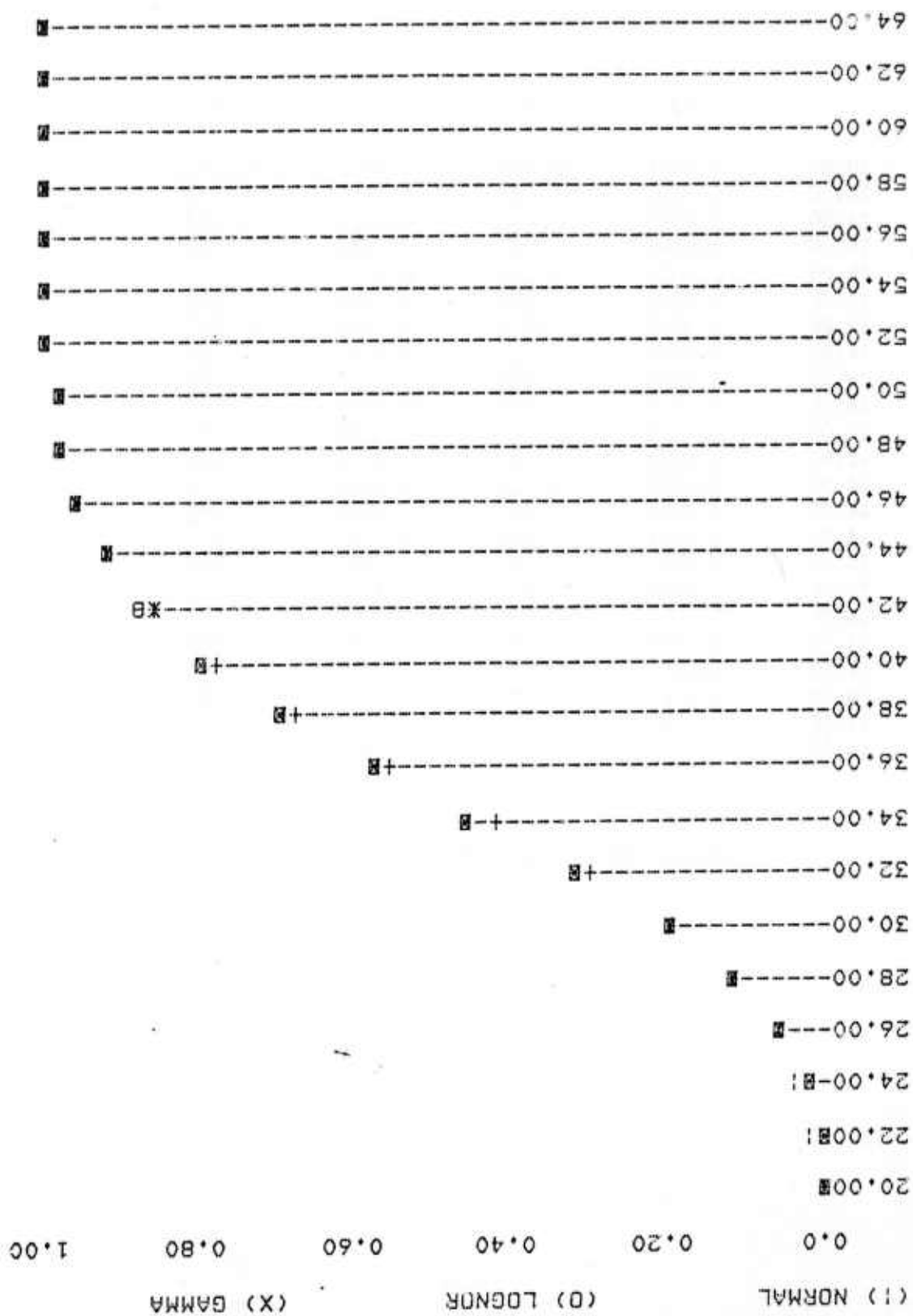


Figure 22a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
20.00	0.004	0.004	0.001	0.002
22.00	0.008	0.014	0.008	0.008
24.00	0.022	0.033	0.022	0.024
26.00	0.049	0.067	0.055	0.058
28.00	0.112	0.121	0.111	0.118
30.00	0.208	0.201	0.206	0.208
32.00	0.322	0.305	0.328	0.322
34.00	0.459	0.427	0.455	0.451
36.00	0.587	0.556	0.589	0.580
38.00	0.703	0.680	0.701	0.698
40.00	0.803	0.786	0.795	0.794
42.00	0.874	0.867	0.873	0.868
44.00	0.924	0.924	0.923	0.919
46.00	0.954	0.960	0.956	0.953
48.00	0.974	0.980	0.975	0.974
50.00	0.985	0.990	0.987	0.986
52.00	0.990	0.994	0.992	0.993
54.00	0.994	0.996	0.994	0.996
56.00	0.996	0.997	0.997	0.998
58.00	0.997	0.997	0.997	0.999
60.00	0.999	0.997	0.998	0.999
62.00	0.999	0.997	0.999	0.999
64.00	1.000	0.997	0.999	1.000

Figure 22b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
36.08	3.16	11	19.68	217.57	10255.04	2783.35

(1) NORMAL

(O) LOGNOR

(X) GAMMA

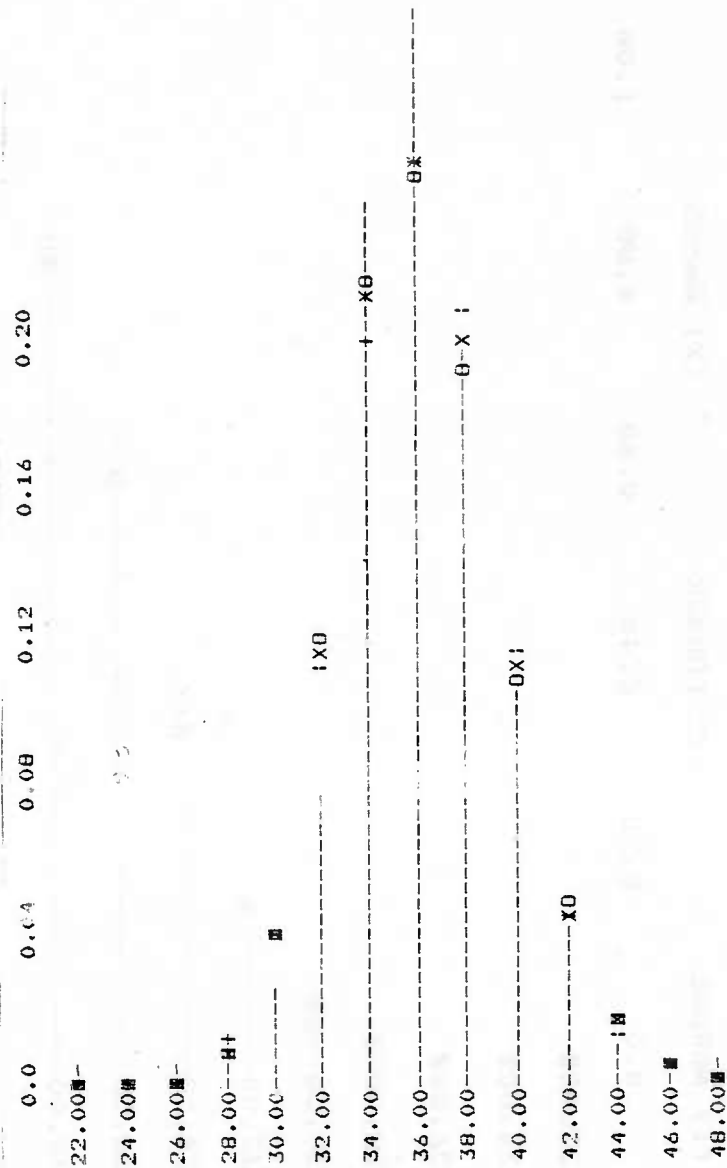


Figure 23. Histogram for Pack Ice

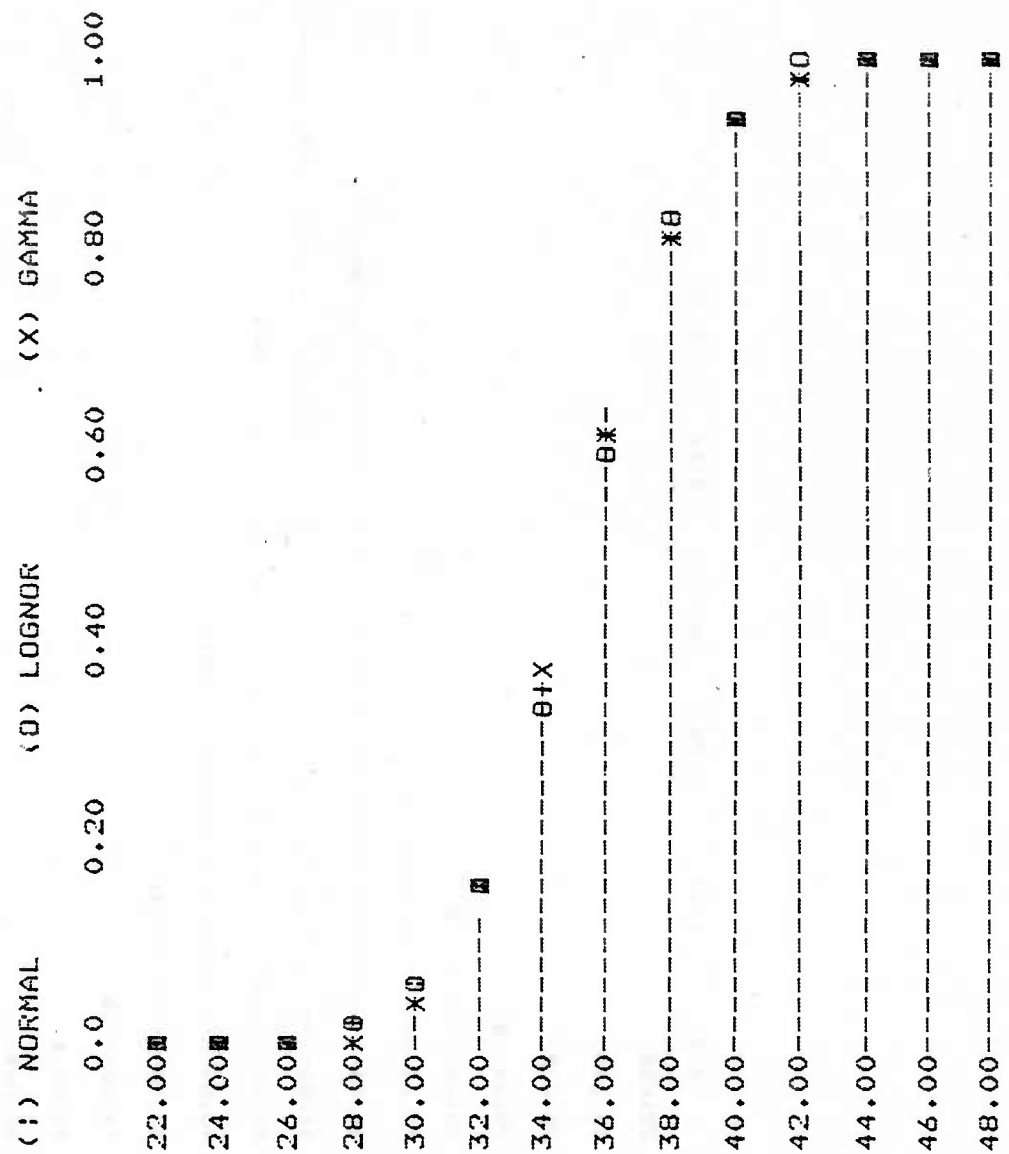


Figure 23a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
22.00	0.003	0.000	0.000	0.000
24.00	0.003	0.000	0.003	0.000
26.00	0.008	0.002	0.003	0.001
28.00	0.019	0.012	0.015	0.009
30.00	0.043	0.054	0.059	0.048
32.00	0.120	0.165	0.163	0.165
34.00	0.356	0.367	0.335	0.376
36.00	0.642	0.615	0.601	0.625
38.00	0.840	0.823	0.834	0.824
40.00	0.944	0.941	0.949	0.936
42.00	0.984	0.986	0.991	0.982
44.00	0.992	0.998	1.000	0.996
46.00	0.995	1.000	0.996	0.999
48.00	1.000	1.000	0.996	1.000

Figure 23b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
36.06	1.97	3	7.82	1.22	1.23	1.17

(I) NORMAL

(O) LOGNOR

(X) GAMMA

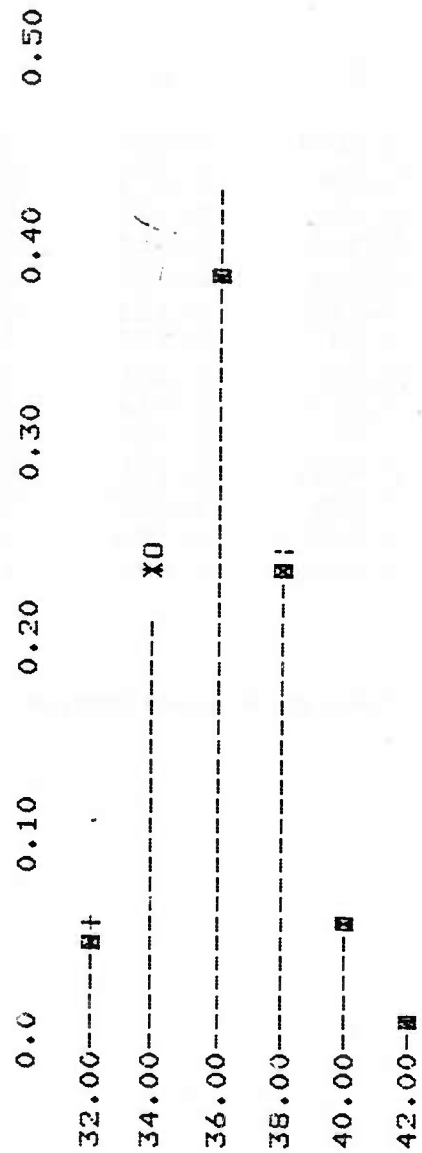


Figure 24. Histogram for Pack Ice

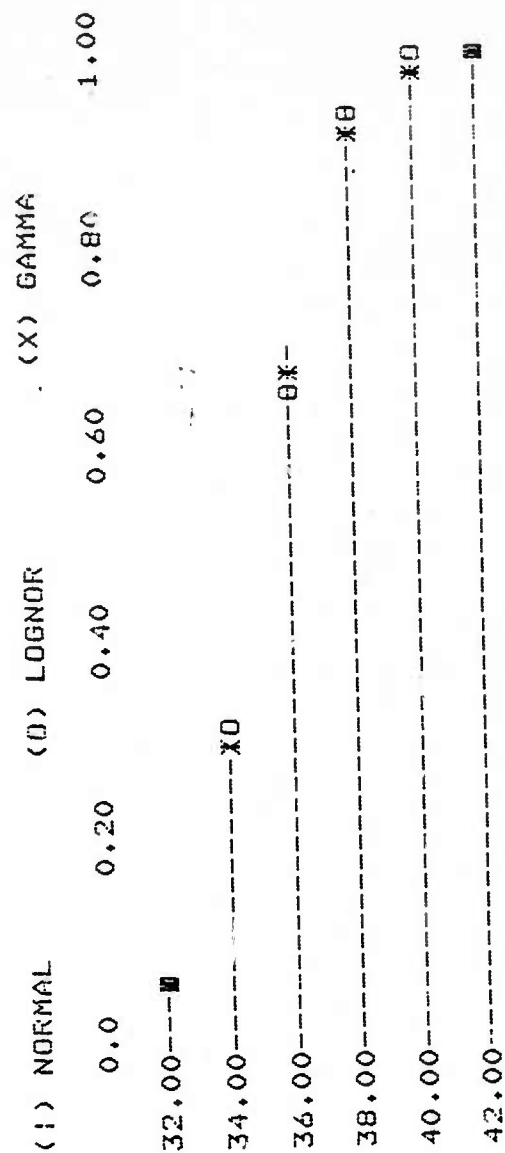


Figure 24a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
32.00	0.064	0.056	0.053	0.054
34.00	0.277	0.291	0.311	0.297
36.00	0.702	0.679	0.664	0.685
38.00	0.936	0.927	0.939	0.926
40.00	0.989	0.989	1.000	0.988
42.00	1.000	0.995	0.998	0.996

Figure 24b. Cumulative Distribution Data

MEAN 5.64 ST DEV 4.76 DOF 12 CHI2 MAX NORMAL LOGNOR GAMMA
 21.03*****29659.91*****

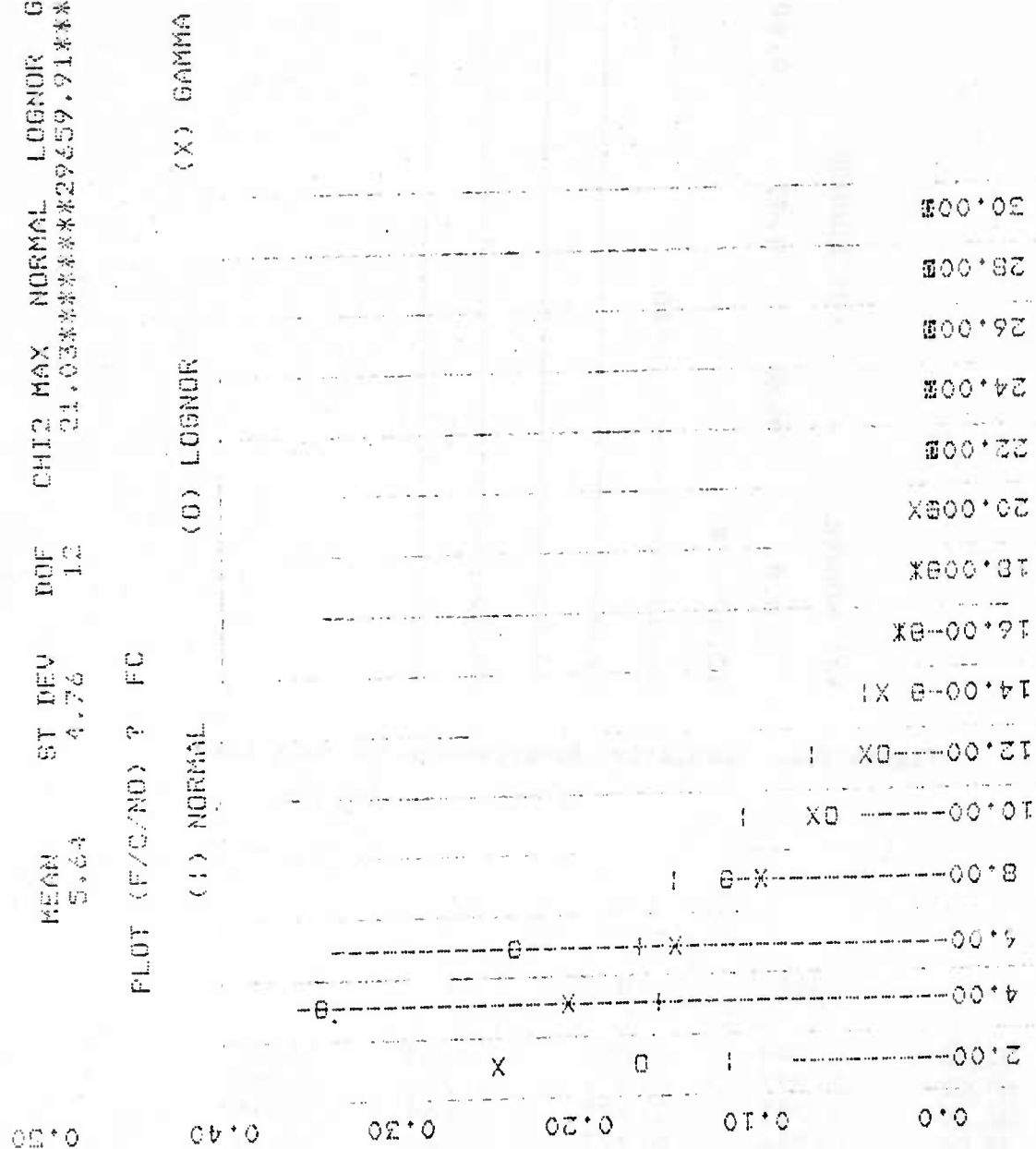


Figure 25. Histogram for City

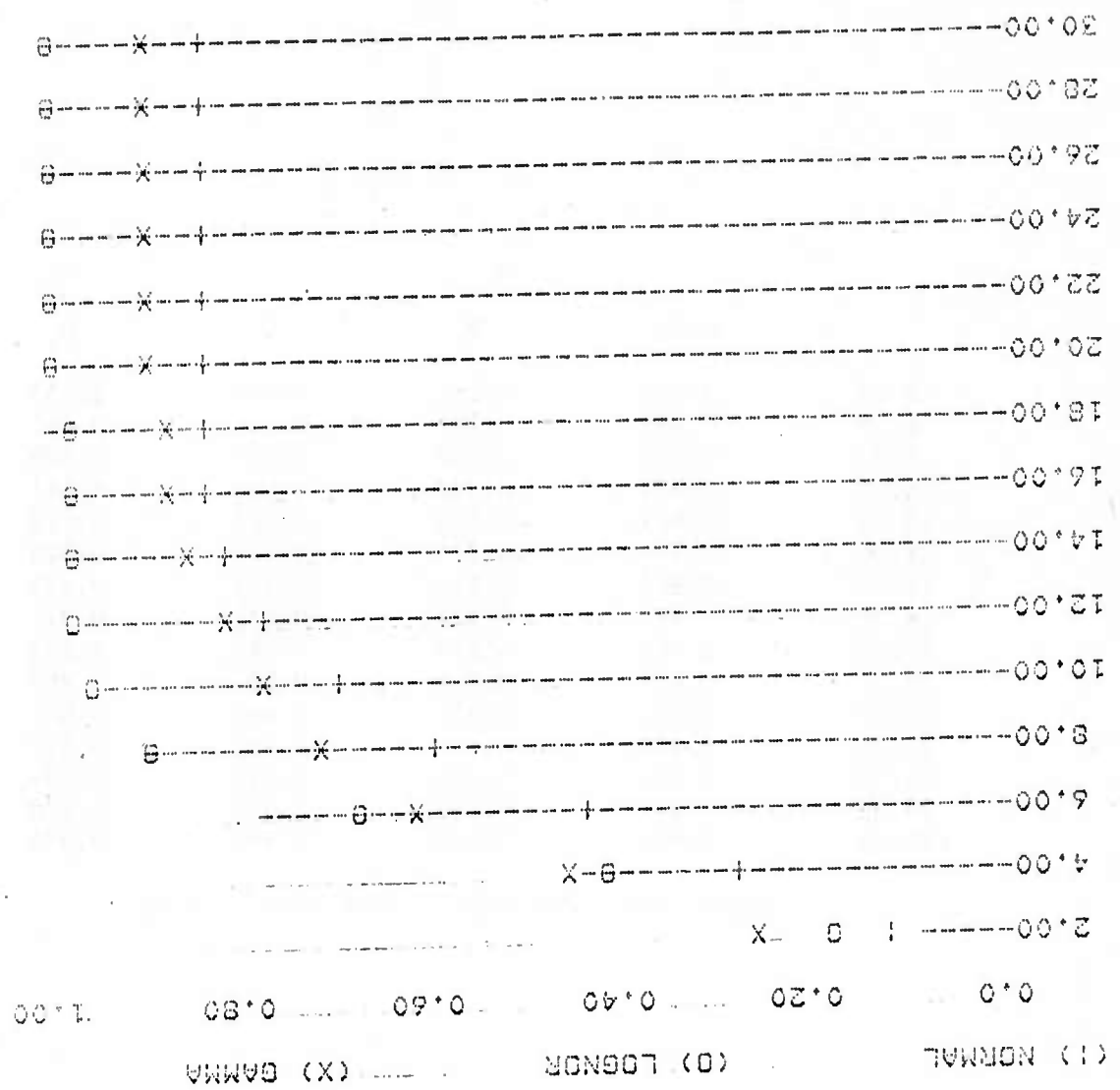


Figure 25a. Cumulative Distribution for City

	City	N	L	G
2.00	0.080	0.125	0.174	0.253
4.00	0.439	0.282	0.427	0.460
6.00	0.780	0.448	0.677	0.609
8.00	0.904	0.595	0.904	0.711
10.00	0.945	0.706	0.963	0.778
12.00	0.964	0.775	0.973	0.823
14.00	0.975	0.811	0.977	0.852
16.00	0.981	0.827	0.981	0.870
18.00	0.986	0.833	0.985	0.882
20.00	0.989	0.835	0.987	0.889
22.00	0.991	0.835	0.990	0.894
24.00	0.993	0.836	0.991	0.897
26.00	0.994	0.836	0.993	0.899
28.00	0.995	0.836	0.994	0.900
30.00	0.995	0.836	0.995	0.901

Figure 25b. Cumulative Distribution Data

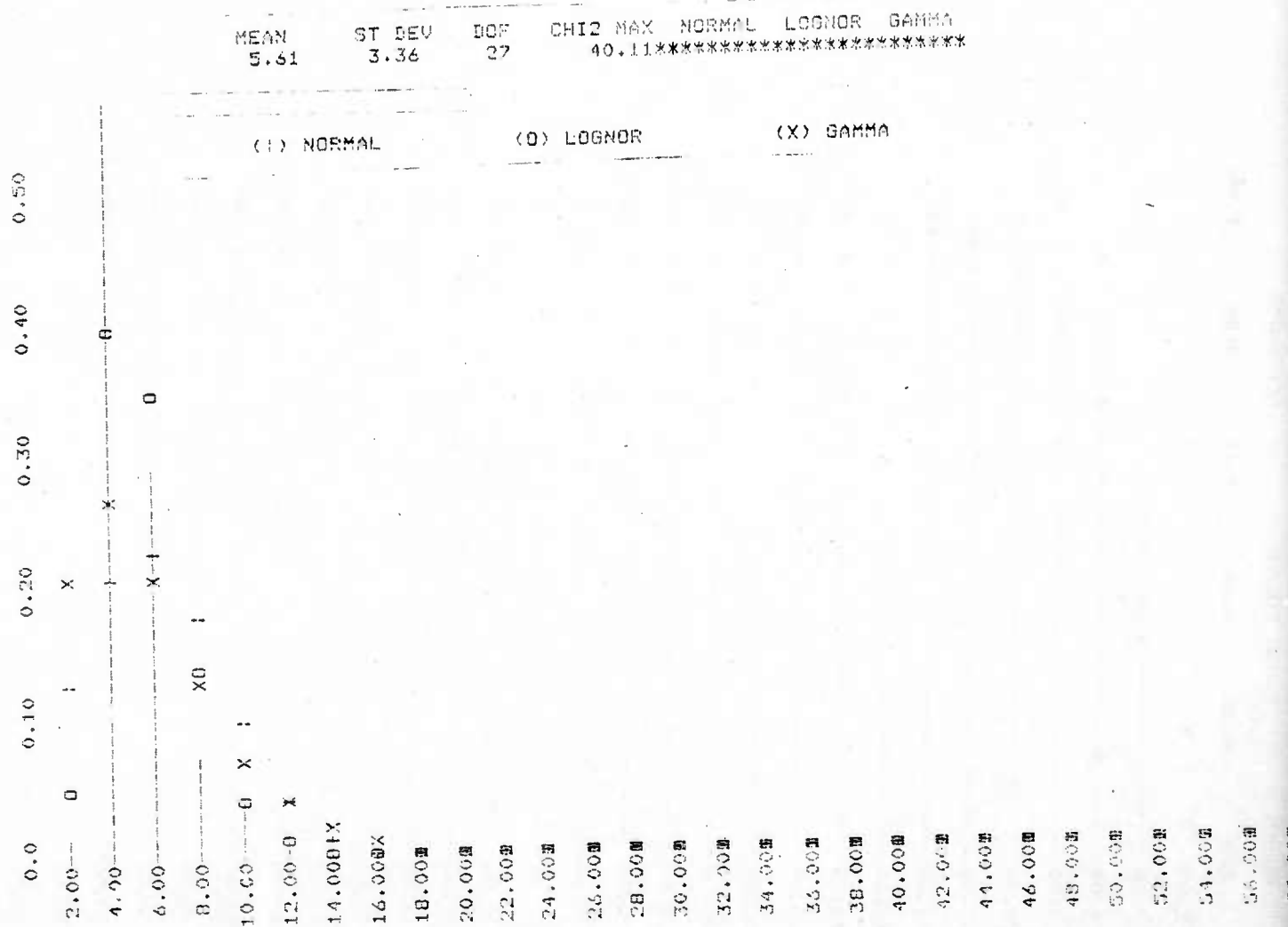


Figure 26. Histogram for City

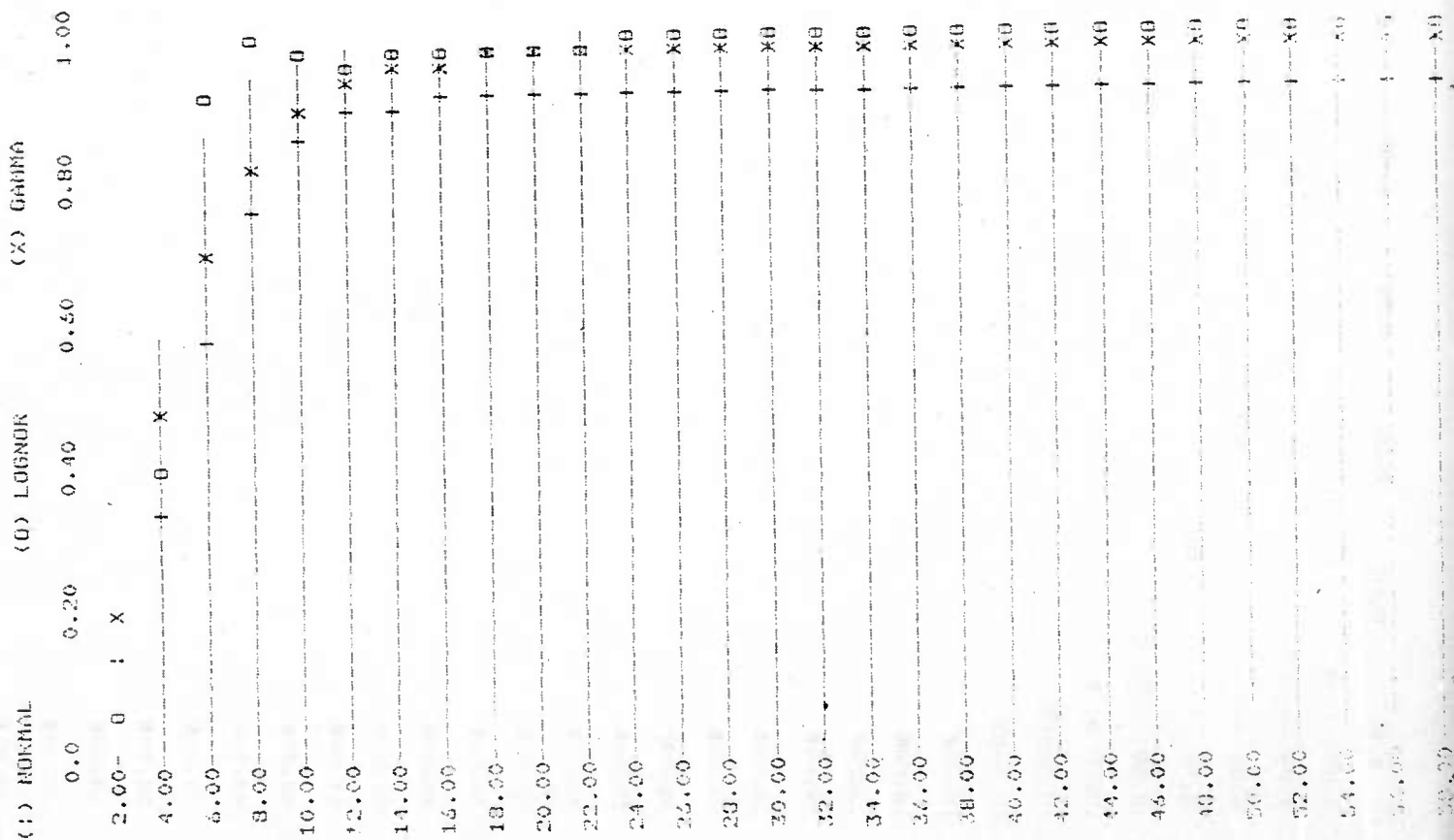


Figure 26a. Cumulative Distribution for City

	City	N	L	G
2.00	0.005	0.133	0.053	0.209
4.00	0.573	0.342	0.407	0.484
6.00	0.865	0.575	0.928	0.697
8.00	0.934	0.758	1.003	0.831
10.00	0.961	0.860	0.974	0.905
12.00	0.976	0.901	0.971	0.944
14.00	0.985	0.912	0.978	0.962
16.00	0.989	0.915	0.985	0.971
18.00	0.990	0.915	0.989	0.975
20.00	0.993	0.915	0.990	0.977
22.00	0.993	0.915	0.993	0.978
24.00	0.993	0.915	0.993	0.978
26.00	0.996	0.915	0.993	0.978
28.00	0.996	0.915	0.996	0.978
30.00	0.997	0.915	0.996	0.978
32.00	0.997	0.915	0.997	0.978
34.00	0.998	0.915	0.997	0.979
36.00	0.998	0.915	0.998	0.979
38.00	0.998	0.915	0.998	0.979
40.00	0.998	0.915	0.998	0.979
42.00	0.998	0.915	0.998	0.979
44.00	0.999	0.915	0.998	0.979
46.00	0.999	0.915	0.999	0.979
48.00	0.999	0.915	0.999	0.979
50.00	0.999	0.915	0.999	0.979
52.00	0.999	0.915	0.999	0.979
54.00	0.999	0.915	0.999	0.979
56.00	1.000	0.915	0.999	0.979
58.00	1.000	0.915	1.000	0.979
60.00	1.000	0.915	1.000	0.979

Figure 26b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
3.64	2.72	12	21.03	332.85	127.43	101.76

() NORMAL

(O) LOGNOR

(X) GAMMA

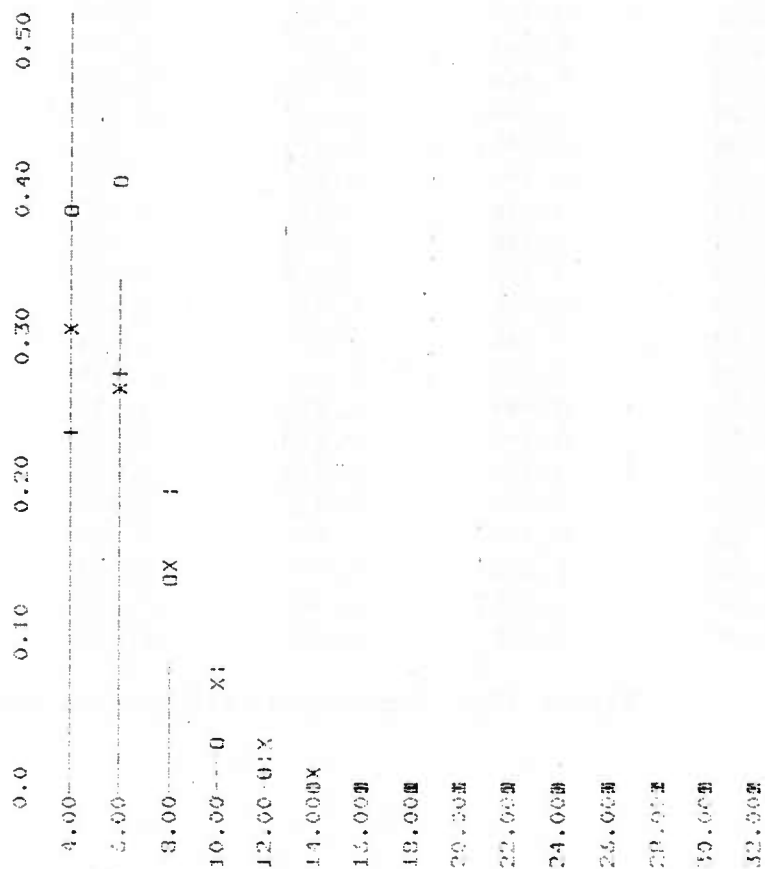


Figure 27. Histogram for City

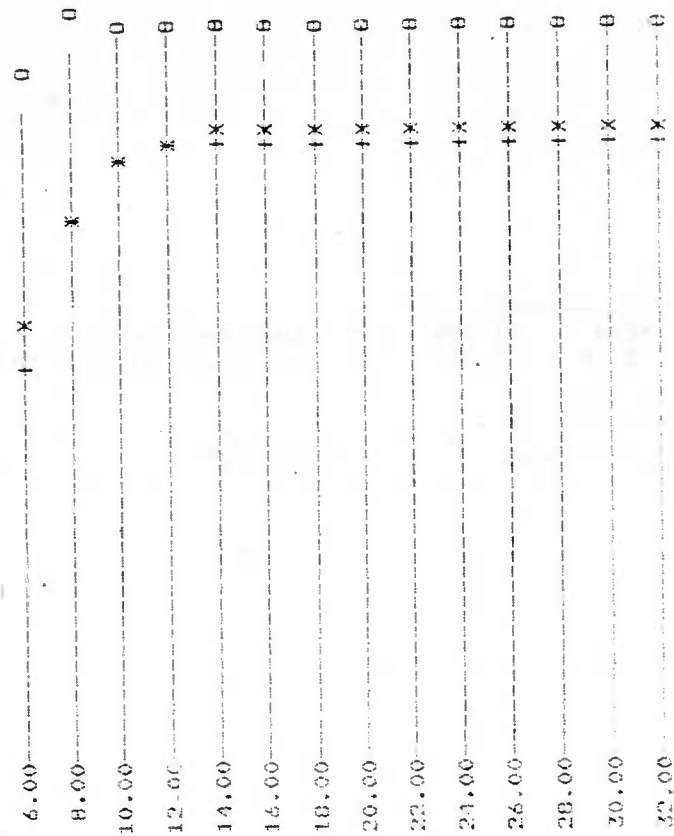


Figure 27a. Cumulative Distribution for City

	City	N	L	G
4.00	0.520	0.241	0.388	0.312
6.00	0.865	0.525	0.927	0.579
8.00	0.949	0.726	1.005	0.731
10.00	0.970	0.810	0.980	0.802
12.00	0.984	0.831	0.976	0.830
14.00	0.991	0.834	0.985	0.841
16.00	0.993	0.834	0.991	0.844
18.00	0.995	0.834	0.993	0.845
20.00	0.995	0.834	0.995	0.846
22.00	0.995	0.834	0.995	0.846
24.00	0.995	0.834	0.995	0.846
26.00	0.995	0.834	0.995	0.846
28.00	0.995	0.834	0.995	0.846
30.00	0.995	0.834	0.995	0.846
32.00	0.995	0.834	0.995	0.846

Figure 27b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
5.68	2.37	7	14.07	9414.76	889.21	18.23

(1) NORMAL

(C) LOGNOR

(X) GAMMA

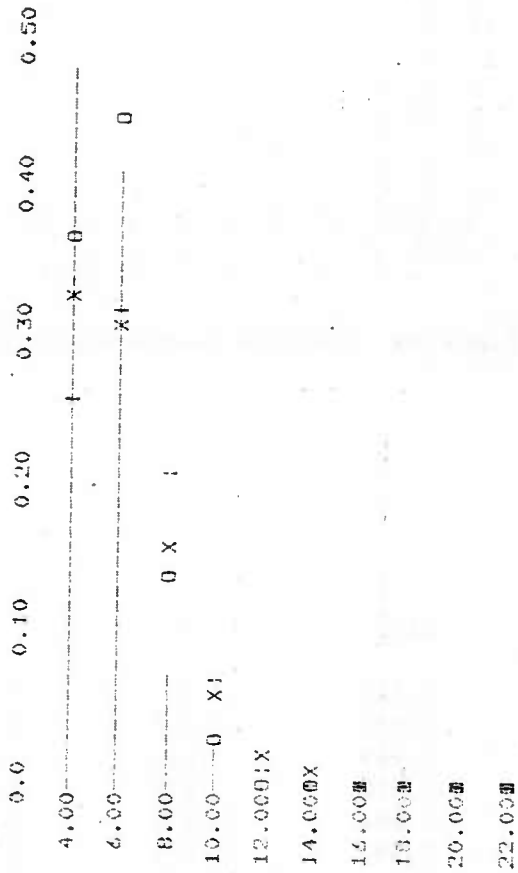


Figure 28. Histogram for City

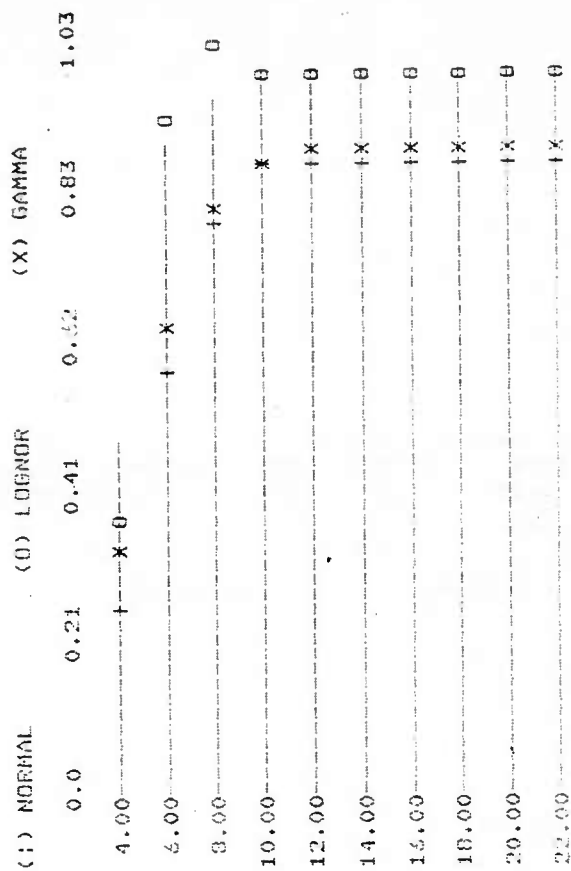


Figure 28a. Cumulative Distribution for City

	City	N	L	G
4.00	0.479	0.258	0.368	0.329
6.00	0.891	0.582	0.925	0.636
8.00	0.958	0.790	1.032	0.800
10.00	0.983	0.858	0.984	0.864
12.00	0.983	0.870	0.987	0.884
14.00	0.983	0.871	0.984	0.890
16.00	0.983	0.871	0.983	0.891
18.00	0.992	0.871	0.983	0.892
20.00	0.992	0.871	0.992	0.892
22.00	0.992	0.871	0.992	0.892

Figure 28b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
3.82	7.34	17	27.57	*****	12962.9282488	3.64

(1) NORMAL

(0) LOGNOR

(X) GAMMA

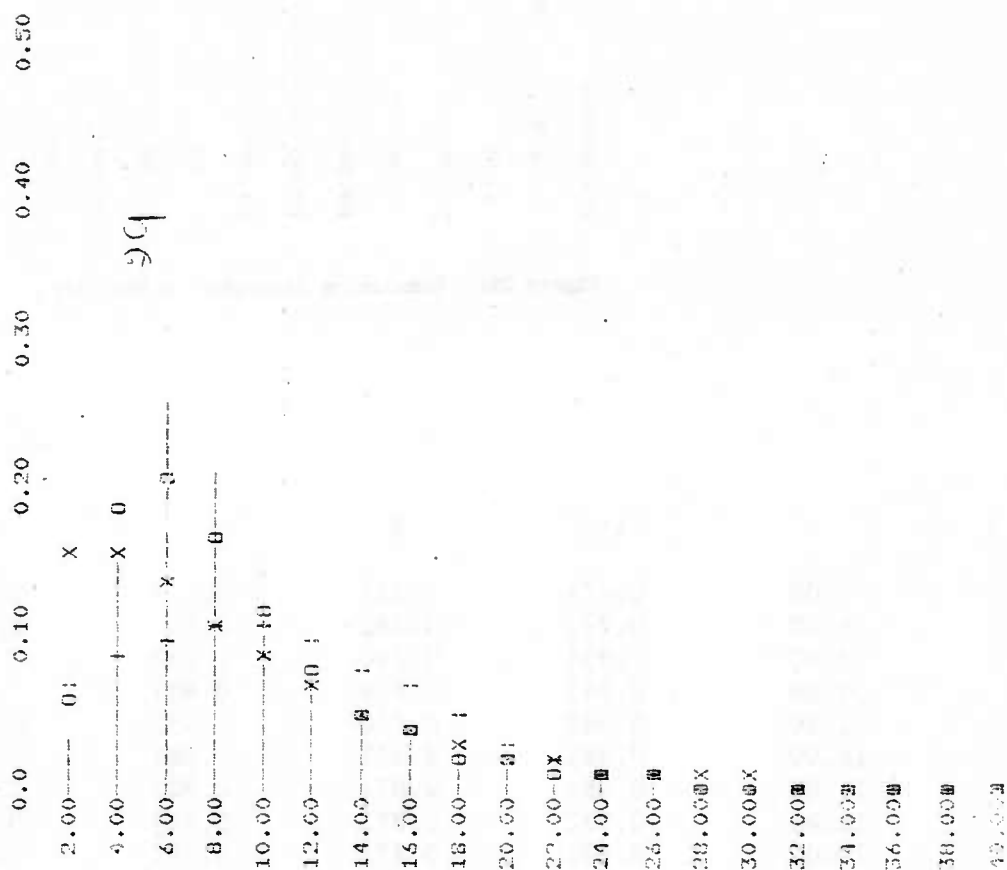


Figure 29. Histogram for City

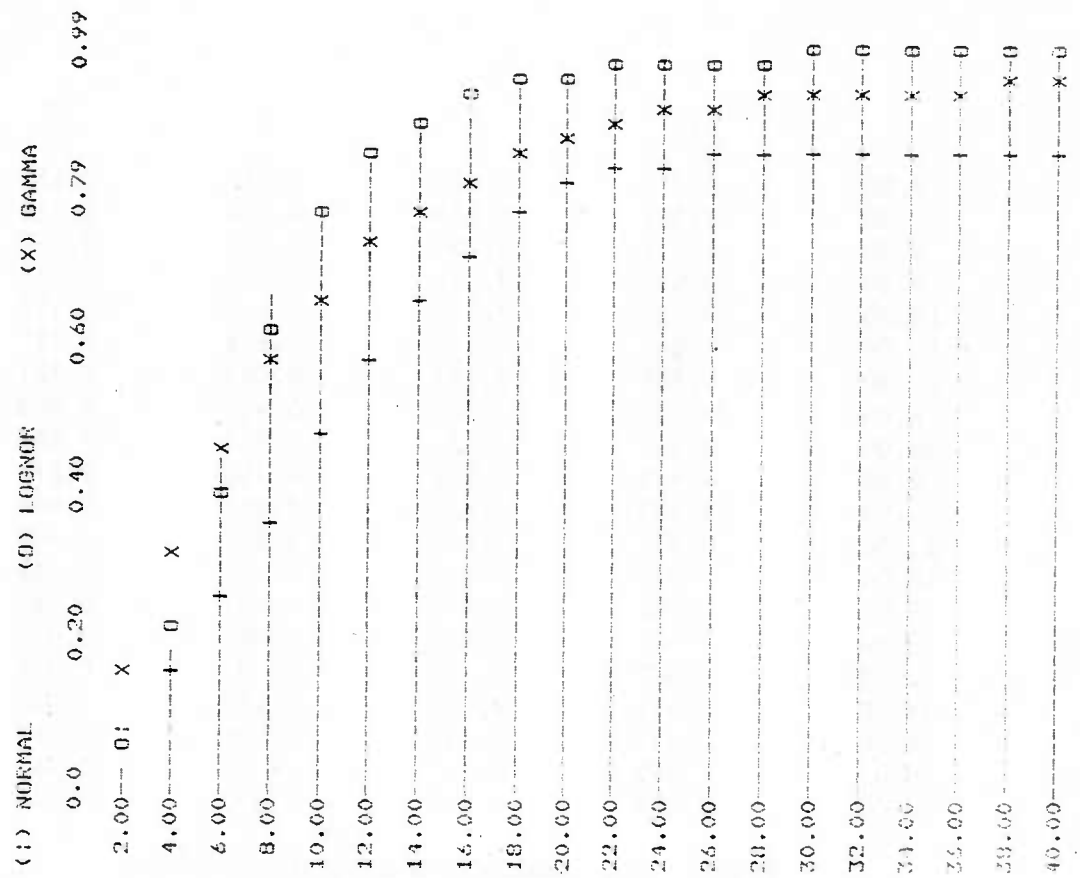


Figure 29a. Cumulative Distribution for City

	City	N	L	G
2.00	0.030	0.071	0.064	0.159
4.00	0.182	0.158	0.224	0.318
6.00	0.441	0.259	0.394	0.455
8.00	0.649	0.366	0.609	0.567
10.00	0.769	0.473	0.768	0.657
12.00	0.843	0.572	0.848	0.727
14.00	0.889	0.657	0.896	0.781
16.00	0.920	0.724	0.924	0.823
18.00	0.940	0.774	0.943	0.854
20.00	0.955	0.808	0.956	0.878
22.00	0.965	0.830	0.965	0.896
24.00	0.972	0.843	0.972	0.909
26.00	0.978	0.850	0.977	0.919
28.00	0.982	0.854	0.981	0.927
30.00	0.985	0.855	0.984	0.932
32.00	0.987	0.856	0.987	0.936
34.00	0.989	0.856	0.989	0.939
36.00	0.990	0.857	0.990	0.942
38.00	0.992	0.857	0.991	0.943
40.00	0.993	0.857	0.992	0.945

Figure 29b. Cumulative Distribution Data

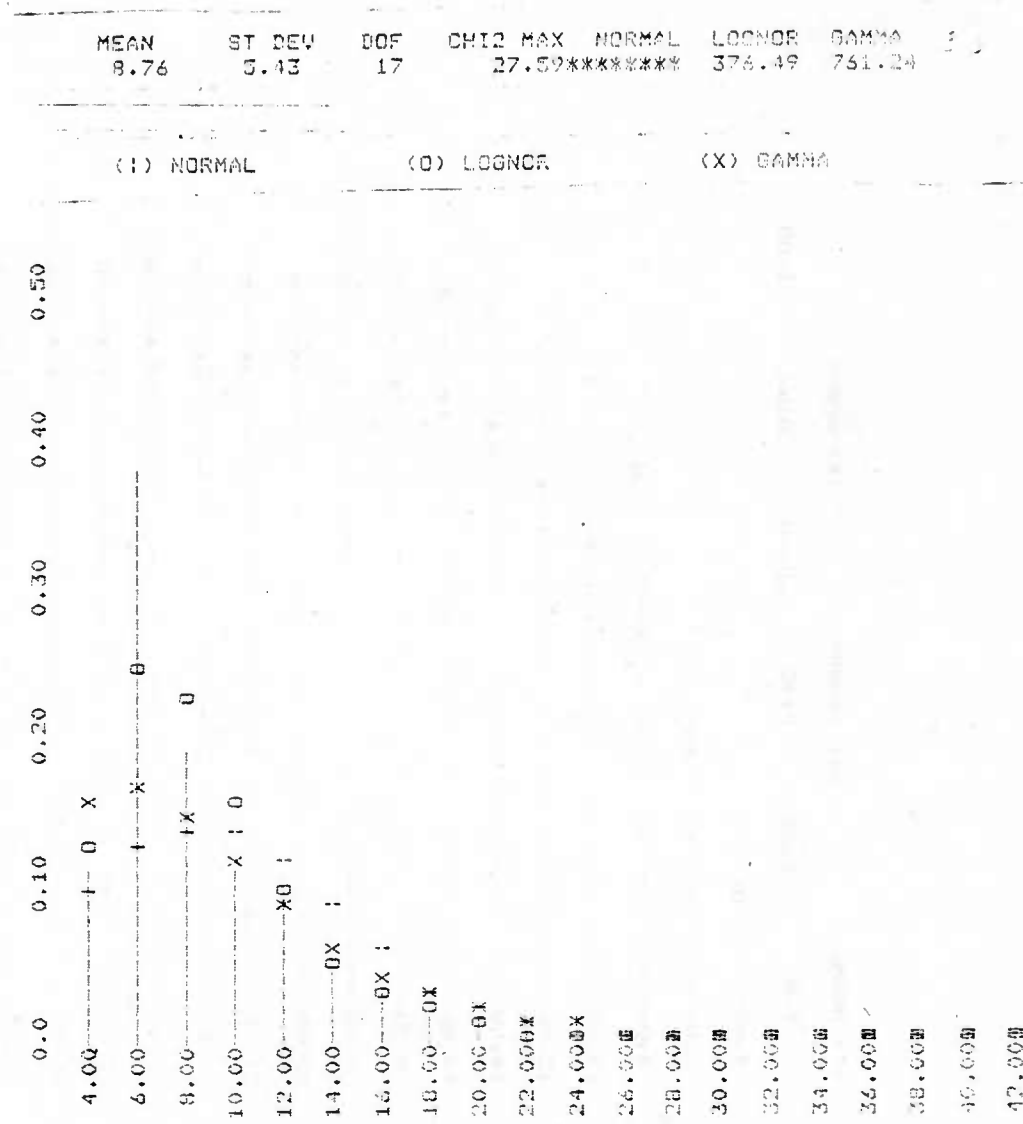


Figure 30. Histogram for City

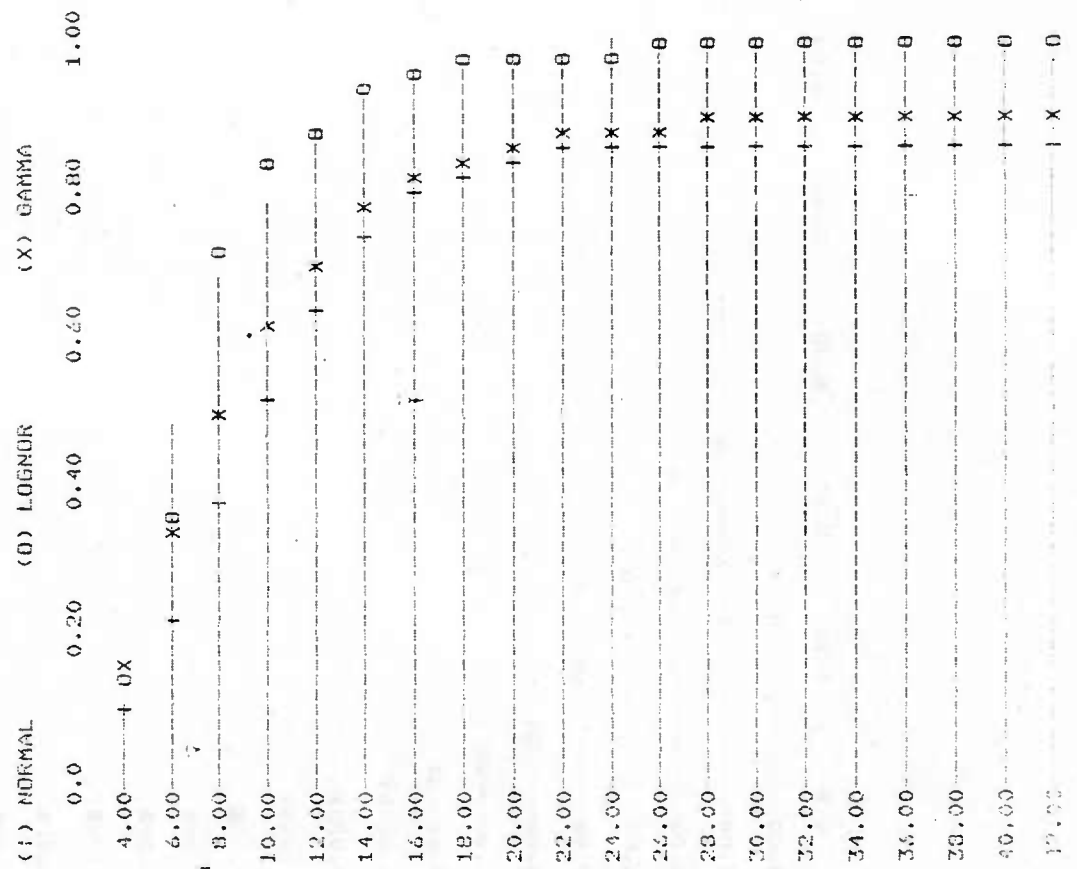


Figure 30a. Cumulative Distribution for City

	City	N	L	G
4.00	0.108	0.100	0.134	0.164
6.00	0.487	0.229	0.356	0.339
8.00	0.673	0.373	0.717	0.493
10.00	0.786	0.515	0.832	0.615
12.00	0.876	0.638	0.882	0.705
14.00	0.920	0.730	0.931	0.769
16.00	0.952	0.791	0.950	0.812
18.00	0.963	0.826	0.968	0.842
20.00	0.973	0.843	0.972	0.861
22.00	0.981	0.851	0.977	0.873
24.00	0.987	0.854	0.983	0.881
26.00	0.991	0.855	0.989	0.886
28.00	0.992	0.855	0.991	0.889
30.00	0.993	0.855	0.993	0.891
32.00	0.994	0.855	0.993	0.892
34.00	0.995	0.855	0.994	0.892
36.00	0.995	0.855	0.995	0.893
38.00	0.996	0.855	0.995	0.893
40.00	0.996	0.855	0.996	0.893
42.00	0.997	0.855	0.996	0.893

Figure 30b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.57	3.94	12	21.03	*****	149.75	170.30

(1) NORMAL

(D) LOGNOR

(X) GAMMA

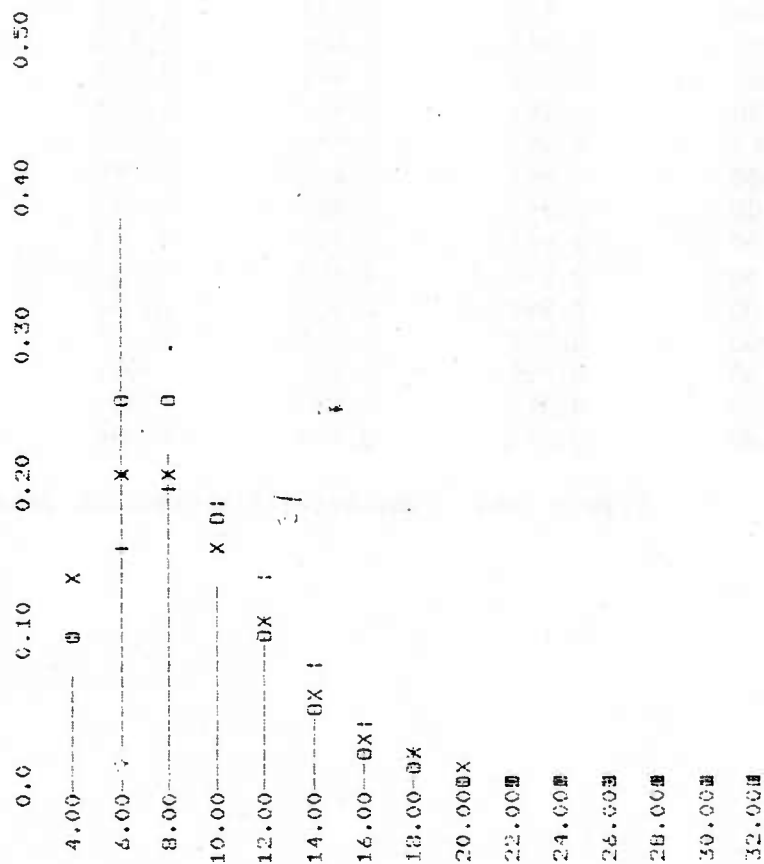


Figure 31. Histogram for City

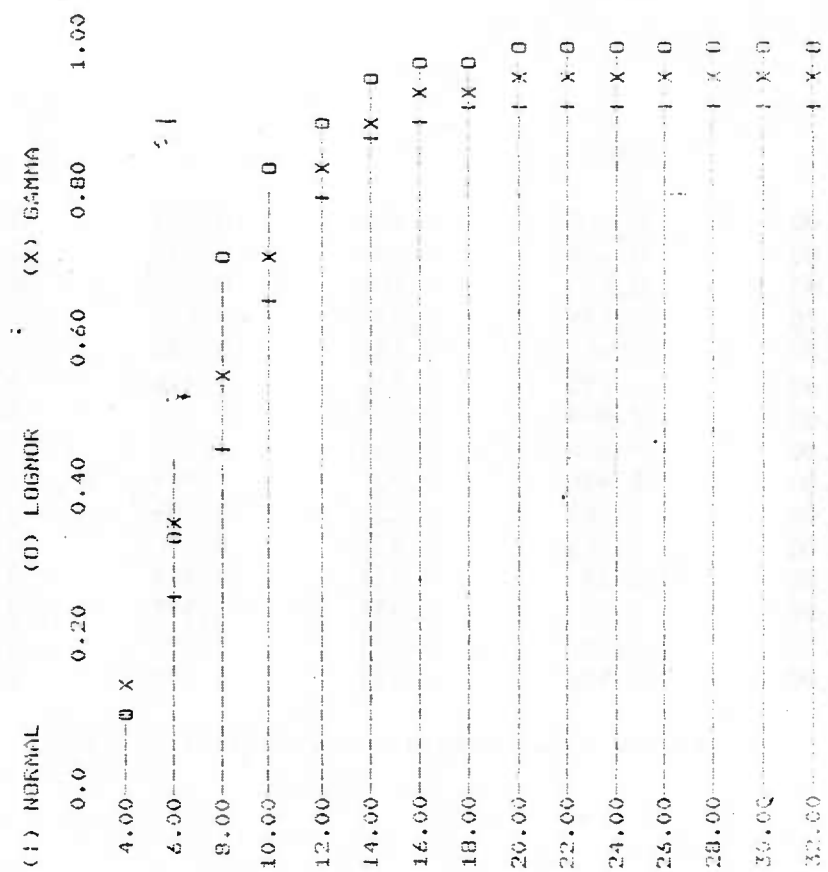


Figure 31a. Cumulative Distribution for City

	City	N	L	G
4.00	0.070	0.104	0.103	0.142
6.00	0.448	0.266	0.331	0.356
8.00	0.670	0.465	0.712	0.565
10.00	0.798	0.653	0.848	0.726
12.00	0.907	0.791	0.895	0.832
14.00	0.952	0.870	0.956	0.894
16.00	0.968	0.905	0.975	0.929
18.00	0.984	0.917	0.979	0.946
20.00	0.986	0.921	0.989	0.955
22.00	0.989	0.921	0.989	0.959
24.00	0.989	0.921	0.990	0.961
26.00	0.991	0.921	0.989	0.962
28.00	0.991	0.921	0.991	0.962
30.00	0.995	0.921	0.991	0.962
32.00	0.998	0.921	0.996	0.963

Figure 31b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
9.35	2.89	5	11.07	58.13	24.33	27.48

() NORMAL

(O) LOGNOR

(X) GAMMA

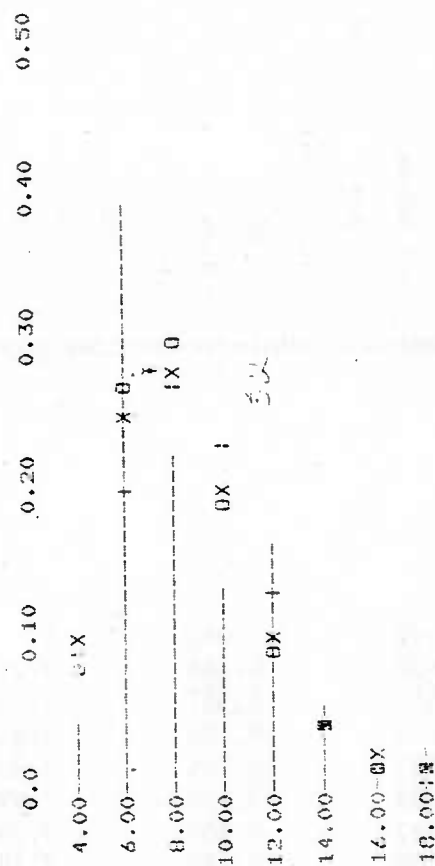


Figure 32. Histogram for City

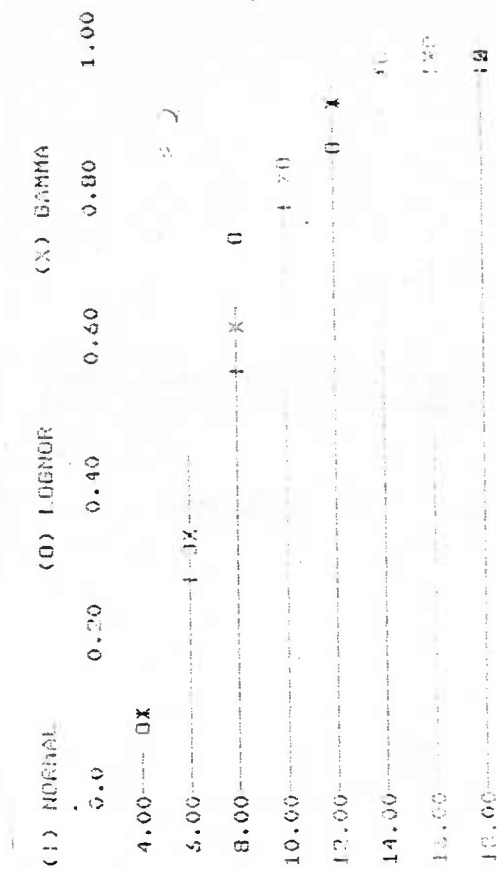


Figure 32a. Cumulative Distribution for City

	City	N	L	G
4.00	0.042	0.091	0.076	0.098
6.00	0.433	0.288	0.316	0.344
8.00	0.650	0.557	0.737	0.622
10.00	0.775	0.788	0.842	0.820
12.00	0.933	0.914	0.867	0.924
14.00	0.983	0.957	0.971	0.968
16.00	0.983	0.967	0.998	0.985
18.00	1.000	0.968	0.989	0.990

Figure 32b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.53	3.47	17	27.59*****	12527.1339480.01		

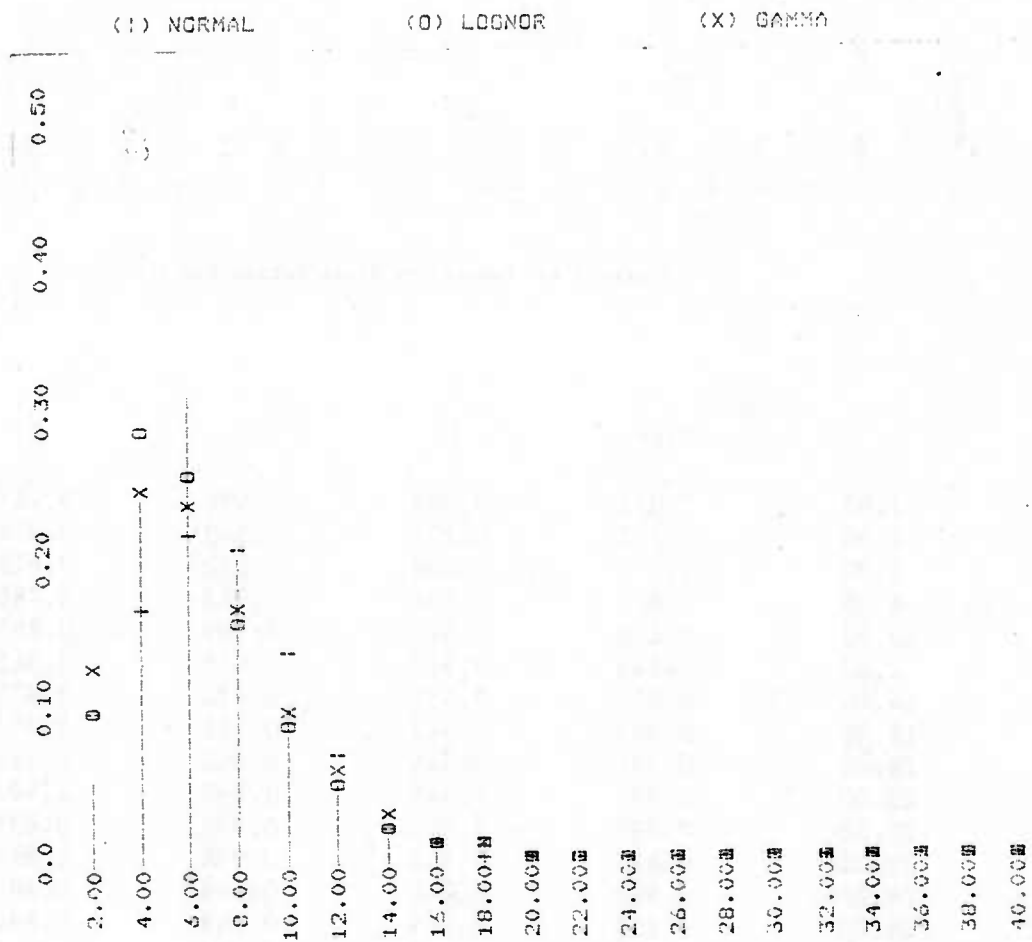


Figure 33. Histogram for City

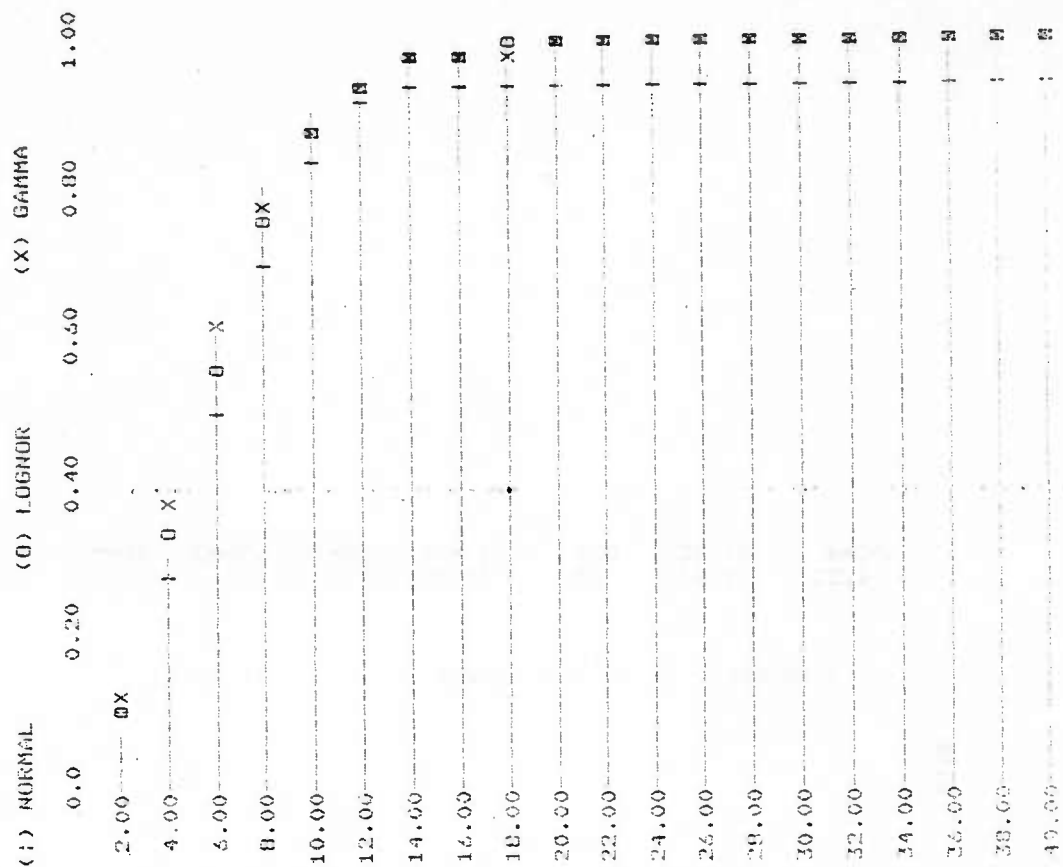


Figure 33a. Cumulative Distribution for City

	City	N	I.	G
2.00	0.053	0.099	0.098	0.127
4.00	0.292	0.274	0.342	0.376
6.00	0.602	0.498	0.552	0.615
8.00	0.800	0.706	0.763	0.785
10.00	0.898	0.845	0.889	0.887
12.00	0.949	0.913	0.945	0.942
14.00	0.973	0.937	0.974	0.970
16.00	0.985	0.943	0.986	0.983
18.00	0.991	0.944	0.992	0.989
20.00	0.995	0.945	0.995	0.992
22.00	0.996	0.945	0.997	0.993
24.00	0.997	0.945	0.998	0.994
26.00	0.998	0.945	0.998	0.994
28.00	0.998	0.945	0.998	0.994
30.00	0.999	0.945	0.999	0.994
32.00	0.999	0.945	0.999	0.994
34.00	0.999	0.945	0.999	0.994
36.00	0.999	0.945	0.999	0.994
38.00	1.000	0.945	0.999	0.994
40.00	1.000	0.945	1.000	0.994

Figure 33b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.50	2.40	11	19.68*****		539.45	9541.39

PLUT (F/C/ND) ? FC
 (I) NORMAL (O) LOGNOR (X) GAMMA

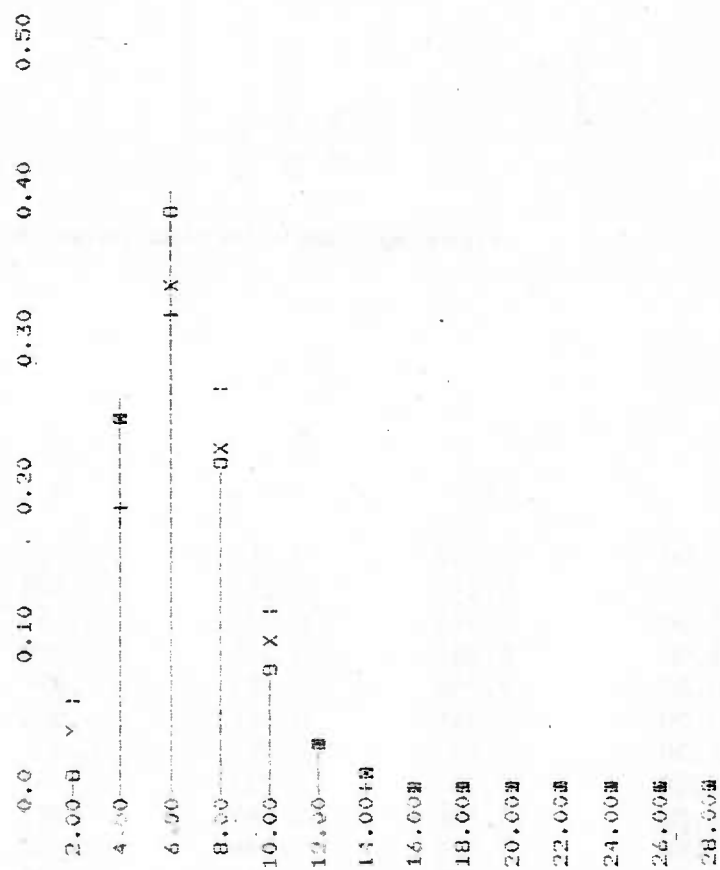


Figure 34. Histogram for City

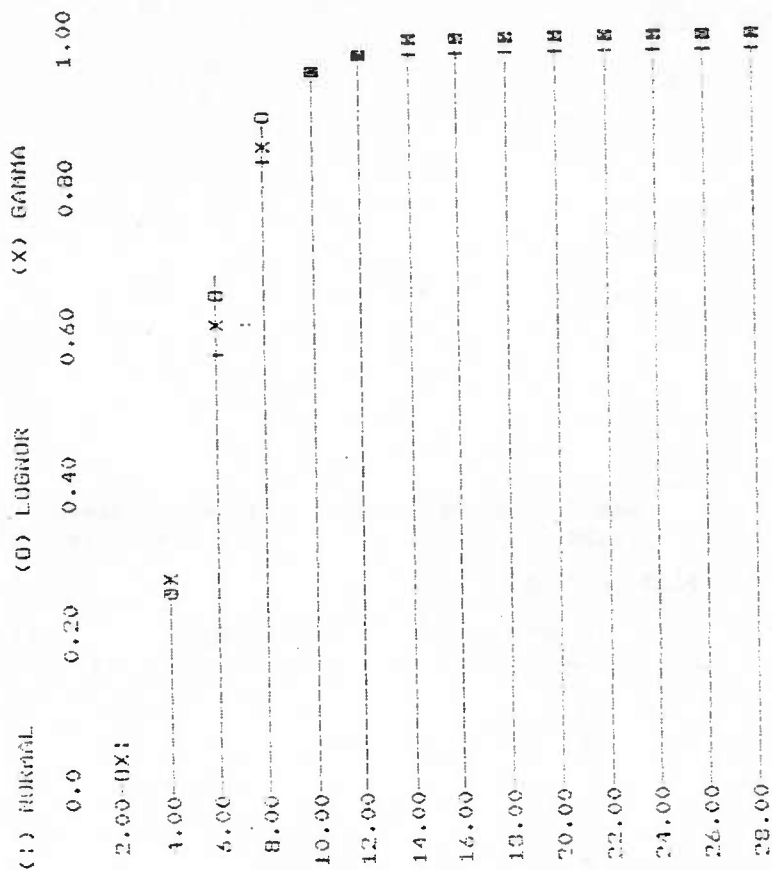


Figure 34a. Cumulative Distribution for City

	City	N	L	G
2.00	0.009	0.061	0.014	0.042
4.00	0.271	0.255	0.259	0.289
6.00	0.675	0.572	0.662	0.627
8.00	0.884	0.841	0.899	0.854
10.00	0.960	0.959	0.968	0.954
12.00	0.985	0.986	0.986	0.987
14.00	0.991	0.989	0.993	0.997
16.00	0.994	0.989	0.993	0.997
18.00	0.996	0.989	0.995	1.000
20.00	0.998	0.989	0.997	1.000
22.00	0.998	0.989	0.998	1.000
24.00	0.999	0.989	0.998	1.000
26.00	1.000	0.989	0.999	1.000
28.00	1.000	0.989	1.000	1.000

Figure 34b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.50	1.85	5	11.07*****		39.57	142.38

(1) NORMAL

(0) LOGNOR

(X) GAMMA

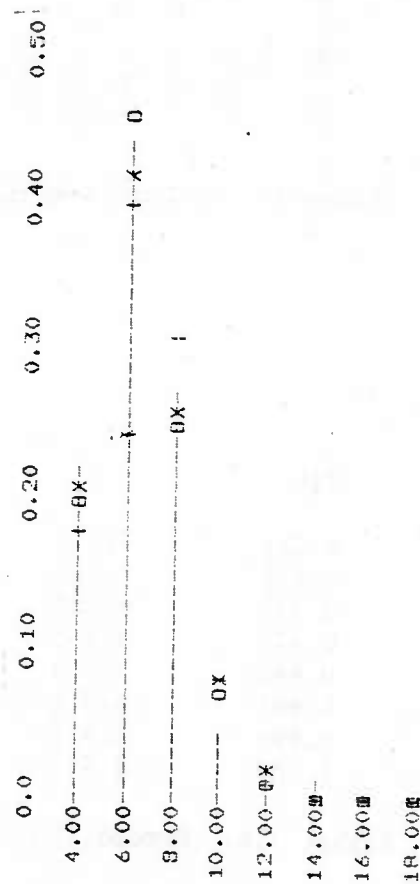


Figure 35. Histogram for City

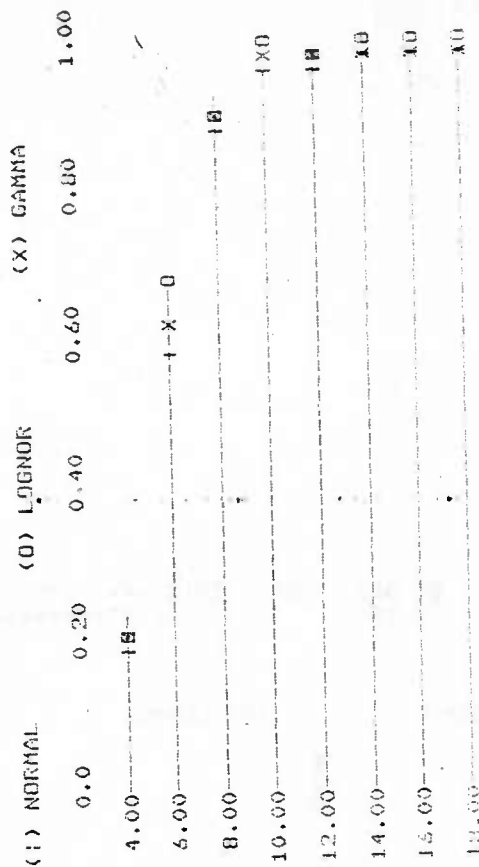


Figure 35a. Cumulative Distribution for City

	City	N	L	G
4.00	0.217	0.179	0.197	0.205
6.00	0.655	0.577	0.678	0.629
8.00	0.930	0.882	0.906	0.892
10.00	0.972	0.963	1.001	0.972
12.00	0.990	0.970	0.987	0.987
14.00	0.997	0.971	0.993	0.989
16.00	0.997	0.971	0.998	0.989
18.00	1.000	0.971	0.998	0.989

Figure 35b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAM
6.50	1.46	1	3.84	2.13	1.37	1.08

(1) NORMAL

(0) LOGNOR

(X) GAMMA

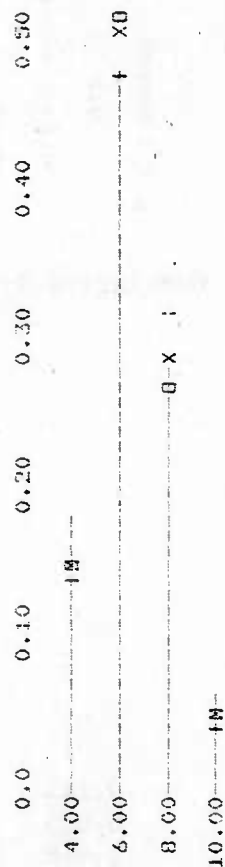


Figure 36. Histogram for City

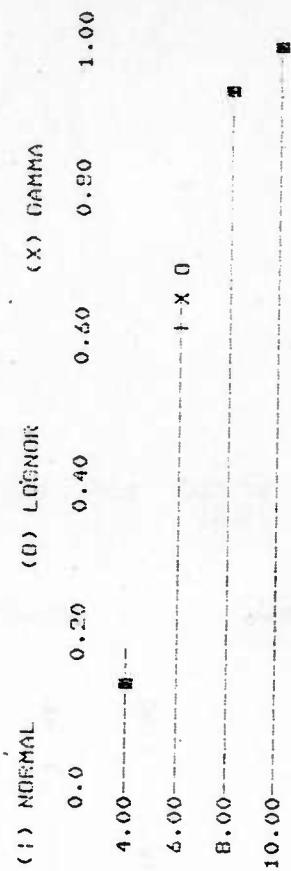


Figure 36a. Cumulative Distribution for City

	City	N	L	G
4.00	0.180	0.144	0.145	0.148
6.00	0.660	0.625	0.705	0.656
8.00	0.940	0.948	0.930	0.944
10.00	1.000	0.991	0.992	0.994

Figure 36b. Cumulative Distribution Data

21/1/55

MEAN 34.39 ST DEV 11.27 DOF 37 CHI2 MAX 43.7715000.87 NORMAL LOGNOR GAMMA 302.87 1370.57

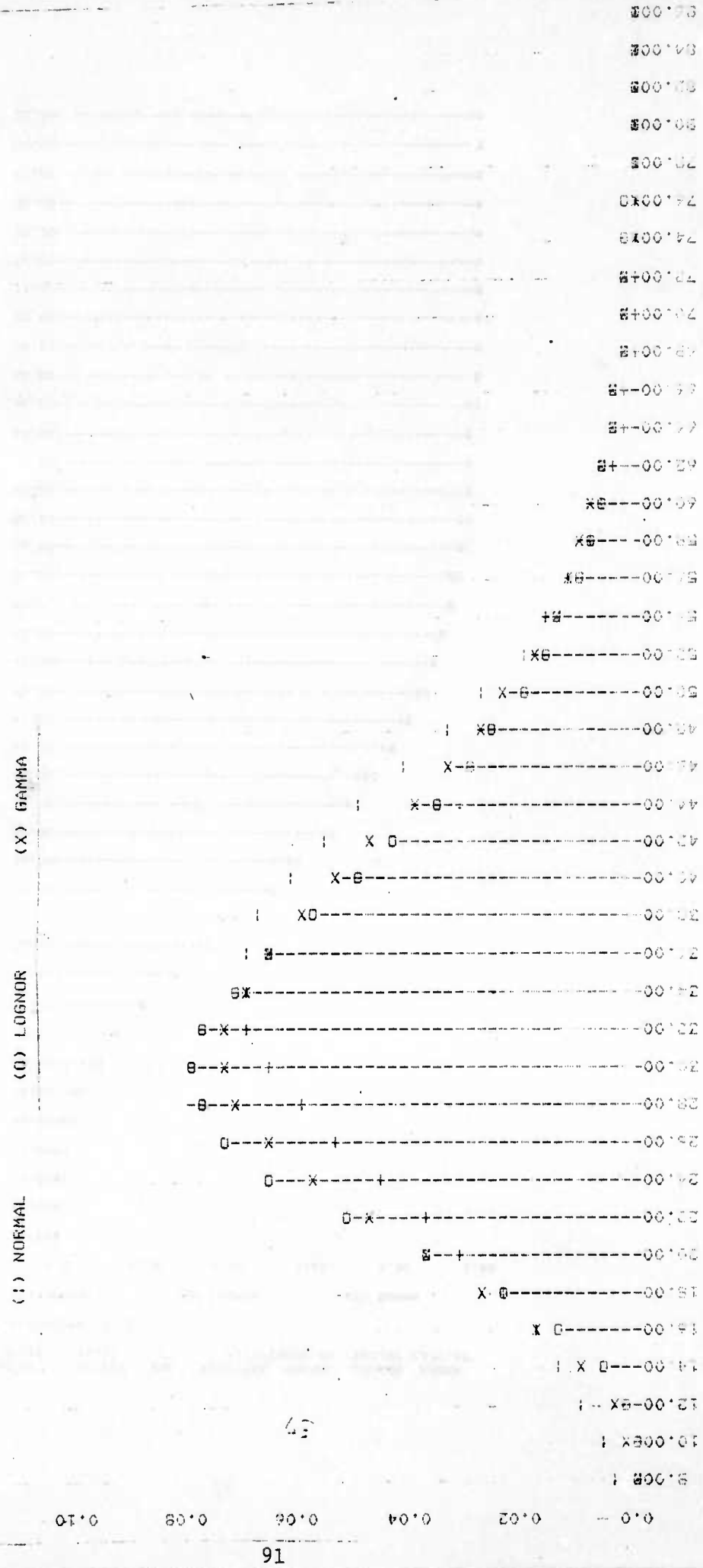


Figure 37. Histogram for Field A

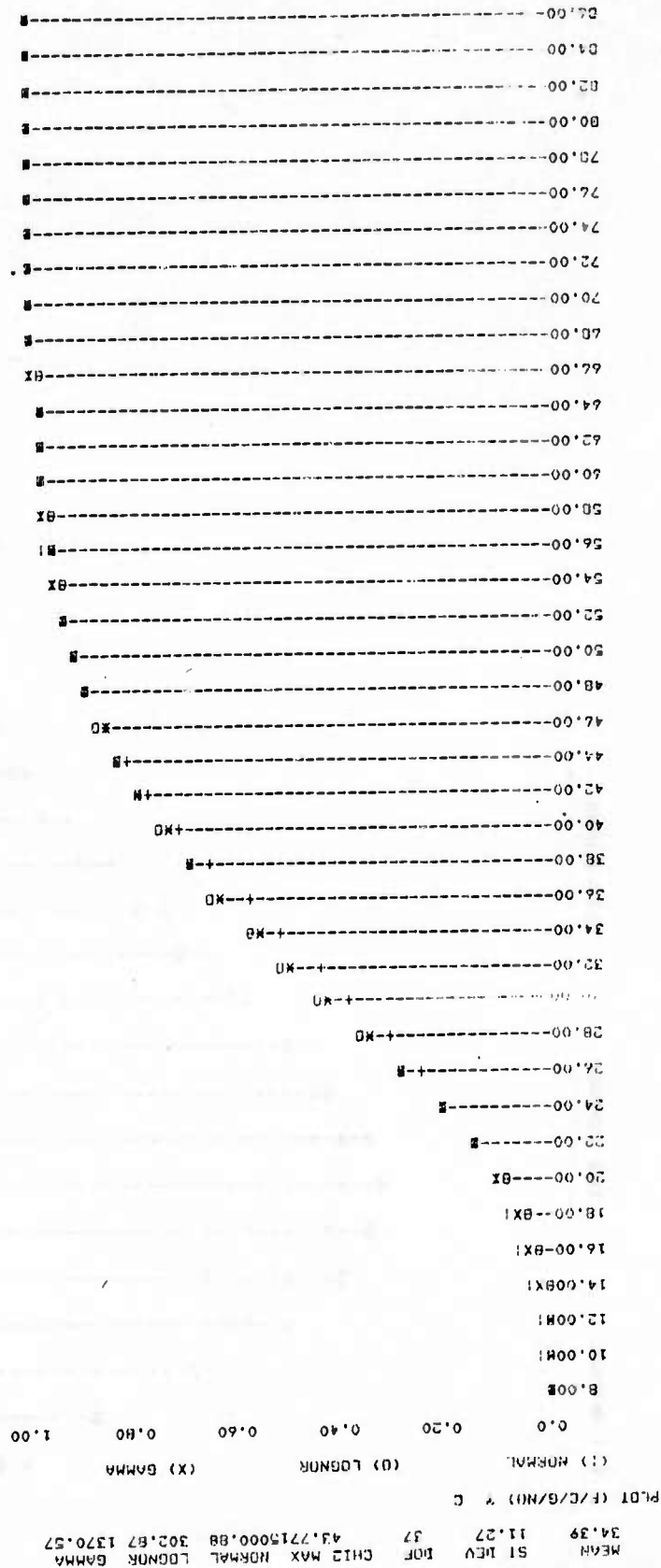


Figure 37a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
	0.000	0.000	0.005	0.000	0.001
	10.000	0.000	0.011	0.000	0.002
	12.000	0.001	0.021	0.002	0.007
	14.000	0.005	0.035	0.008	0.017
	16.000	0.017	0.054	0.021	0.035
	18.000	0.038	0.078	0.046	0.062
	20.000	0.073	0.110	0.084	0.101
	22.000	0.124	0.149	0.137	0.150
	24.000	0.187	0.195	0.202	0.208
	26.000	0.260	0.248	0.276	0.275
	28.000	0.340	0.309	0.355	0.346
	30.000	0.420	0.374	0.435	0.420
	32.000	0.498	0.443	0.512	0.494
	34.000	0.571	0.514	0.585	0.565
	36.000	0.637	0.584	0.651	0.631
	38.000	0.693	0.651	0.710	0.691
	40.000	0.745	0.714	0.760	0.745
	42.000	0.788	0.770	0.804	0.792
	44.000	0.828	0.819	0.841	0.833
	46.000	0.860	0.861	0.872	0.867
	48.000	0.888	0.895	0.897	0.895
	50.000	0.910	0.922	0.917	0.918
	52.000	0.928	0.943	0.934	0.937
	54.000	0.944	0.959	0.948	0.951
	56.000	0.956	0.970	0.959	0.963
	58.000	0.966	0.978	0.967	0.972
	60.000	0.974	0.983	0.974	0.979
	62.000	0.980	0.987	0.980	0.984
	64.000	0.984	0.989	0.984	0.988
	66.000	0.988	0.991	0.987	0.991
	68.000	0.991	0.991	0.990	0.994
	70.000	0.993	0.992	0.992	0.995
	72.000	0.994	0.992	0.994	0.997
	74.000	0.996	0.992	0.995	0.998
	76.000	0.997	0.992	0.996	0.998
	78.000	0.998	0.992	0.997	0.999
	80.000	0.998	0.992	0.998	0.999
	82.000	0.999	0.992	0.998	0.999
	84.000	0.999	0.992	0.999	0.999
	86.000	0.999	0.992	0.999	1.000

Figure 37b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
34.48	5.25	15	25.00	173.45	21.98	35.43

(1) NORMAL

(0) LOGNOR

(X) GAMMA

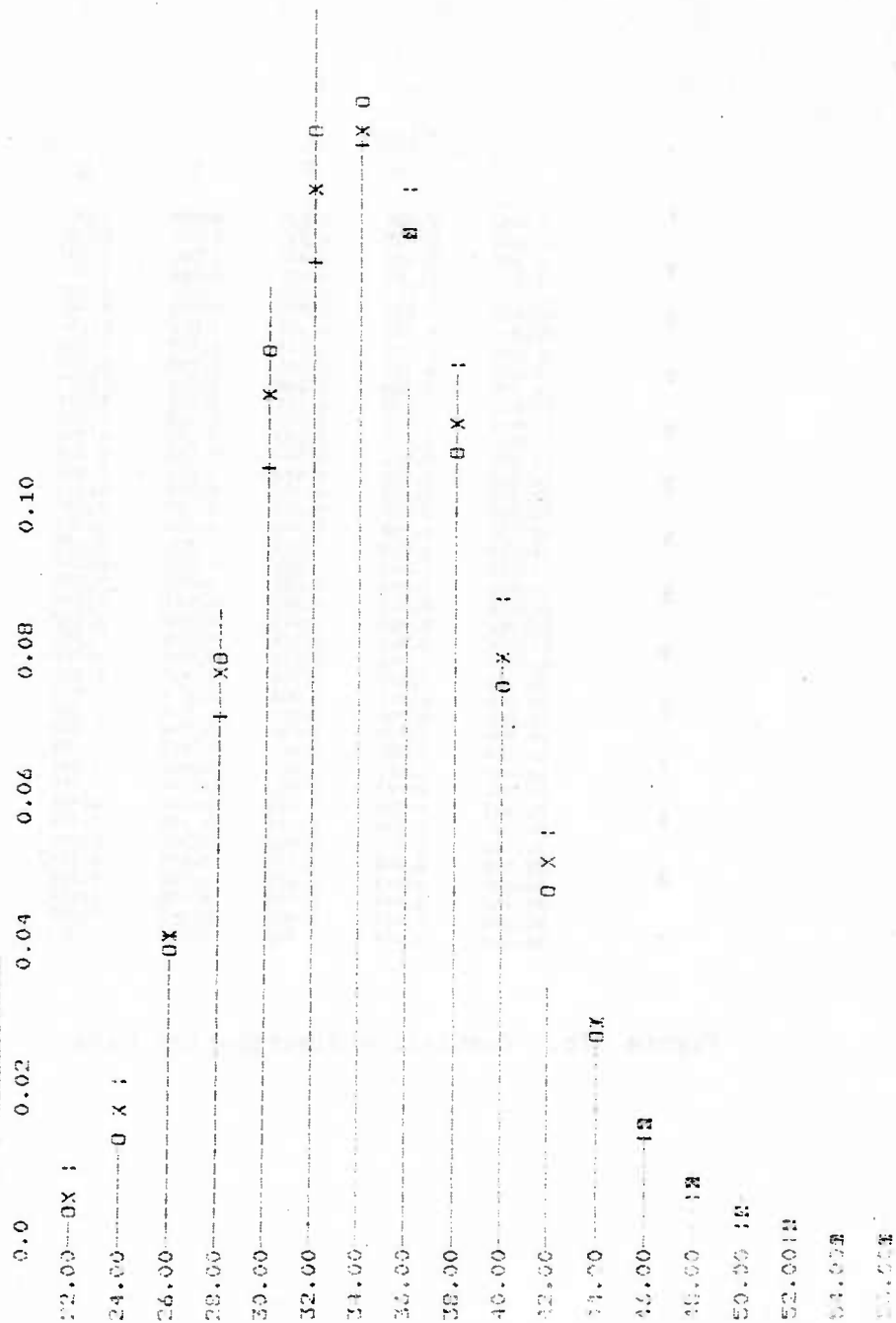


Figure 38. Histogram for Field A

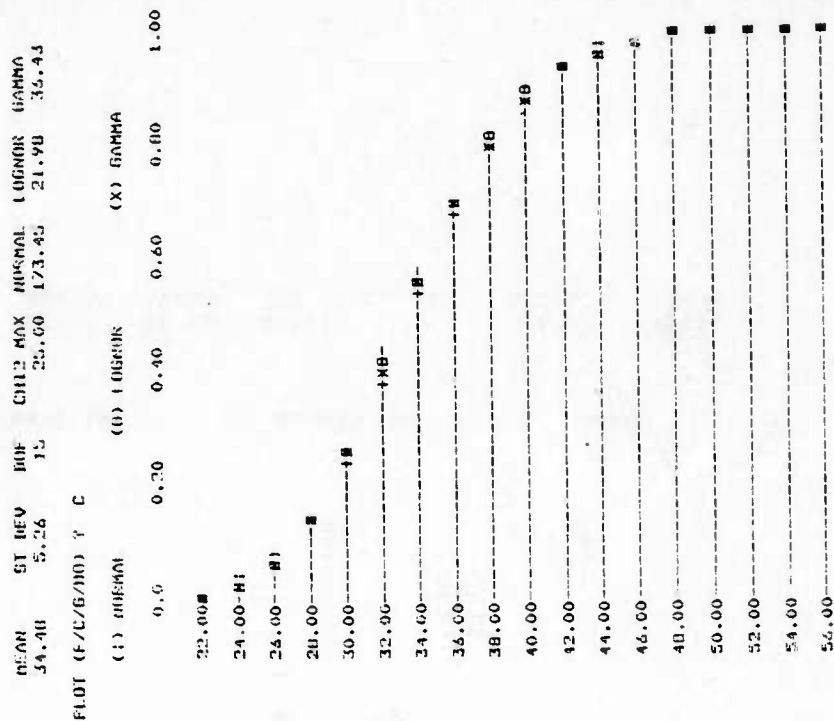


Figure 38a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
	22.000	0.001	0.009	0.004	0.006
	24.000	0.013	0.031	0.018	0.024
	26.000	0.050	0.072	0.058	0.067
	28.000	0.136	0.144	0.138	0.145
	30.000	0.266	0.249	0.261	0.261
	32.000	0.434	0.384	0.413	0.406
	34.000	0.586	0.534	0.569	0.557
	36.000	0.701	0.678	0.708	0.696
	38.000	0.819	0.799	0.816	0.807
	40.000	0.899	0.987	0.891	0.887
	42.000	0.934	0.942	0.940	0.938
	44.000	0.964	0.972	0.968	0.968
	46.000	0.979	0.986	0.984	0.984
	48.000	0.988	0.992	0.992	0.992
	50.000	0.993	0.994	0.996	0.996
	52.000	0.996	0.995	0.998	0.997
	54.000	0.996	0.995	0.999	0.998
	56.000	0.999	0.995	0.999	0.998

Figure 38b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
34.39	2.91	7	14.07	57.62	17.33	22.21

(1) NORMAL

(0) LOGNOR

(X) GAMMA

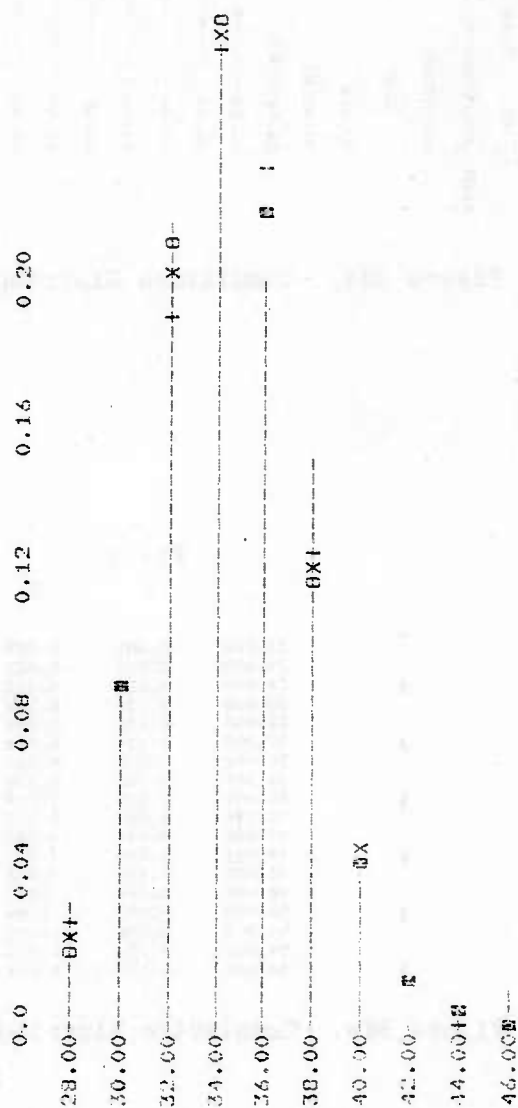


Figure 39. Histogram for Field A

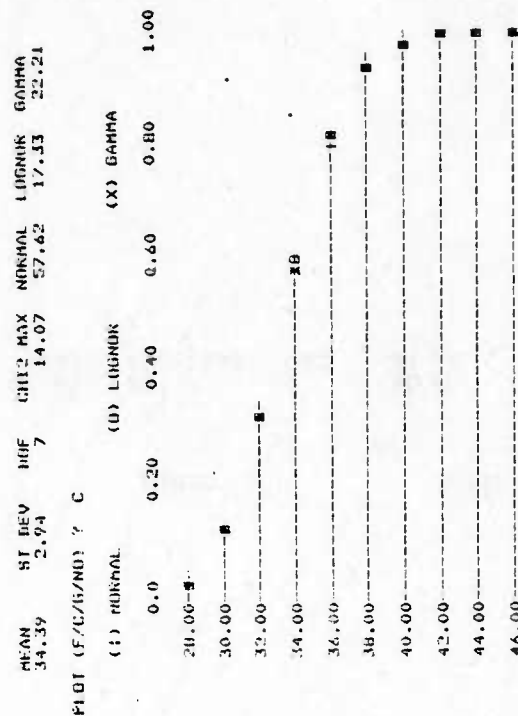


Figure 39a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
)	20.000	0.032	0.027	0.022	0.024
	30.000	0.120	0.118	0.115	0.119
	32.000	0.336	0.312	0.325	0.322
)	34.000	0.600	0.577	0.597	0.590
	35.000	0.800	0.807	0.816	0.811
	38.000	0.952	0.936	0.935	0.934
)	40.000	0.992	0.982	0.981	0.981
	42.000	0.992	0.992	0.994	0.994
	44.000	0.992	0.994	0.997	0.996
)	46.000	1.000	0.994	0.998	0.996

Figure 39b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
34.55	2.29	5	11.07	19.57	19.59	17.09

(1) NORMAL

(0) LOGNOR

(X) GAMMA

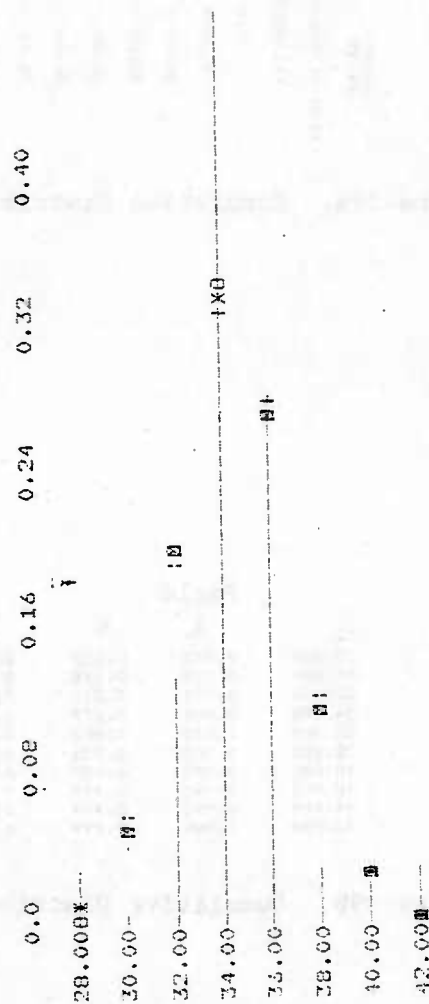


Figure 40. Histogram for Field A

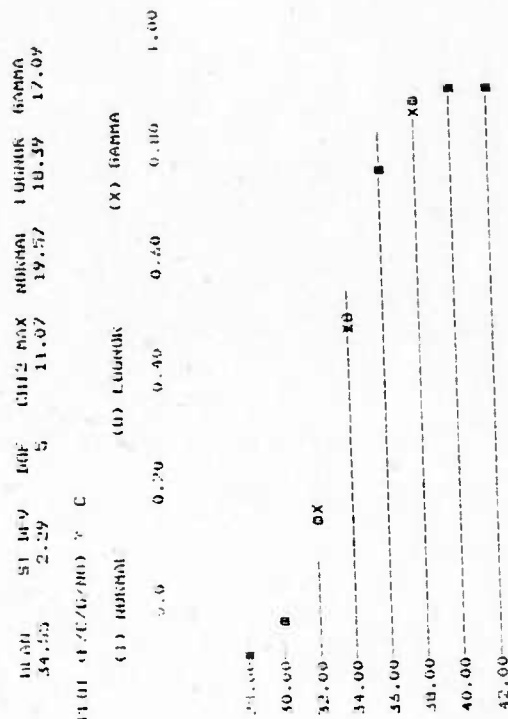


Figure 40a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
3	20.000	0.026	0.007	0.004	0.005
	30.000	0.026	0.040	0.050	0.056
	32.000	0.154	0.249	0.250	0.253
3	34.000	0.341	0.578	0.592	0.586
	36.000	0.923	0.957	0.862	0.857
	38.000	0.949	0.974	0.971	0.970
3	40.000	0.974	0.997	0.996	0.996
	42.000	1.000	0.999	1.000	0.999

Figure 40b. Cumulative Distribution Data

MEAN 41.35 ST DEV 11.92 DOF 37 CHI2 MAX 43.77 NORMAL LOSSOR 400.92 GAMMA 919.89

41

(1) NORMAL (2) LOSSOR (X) GAMMA

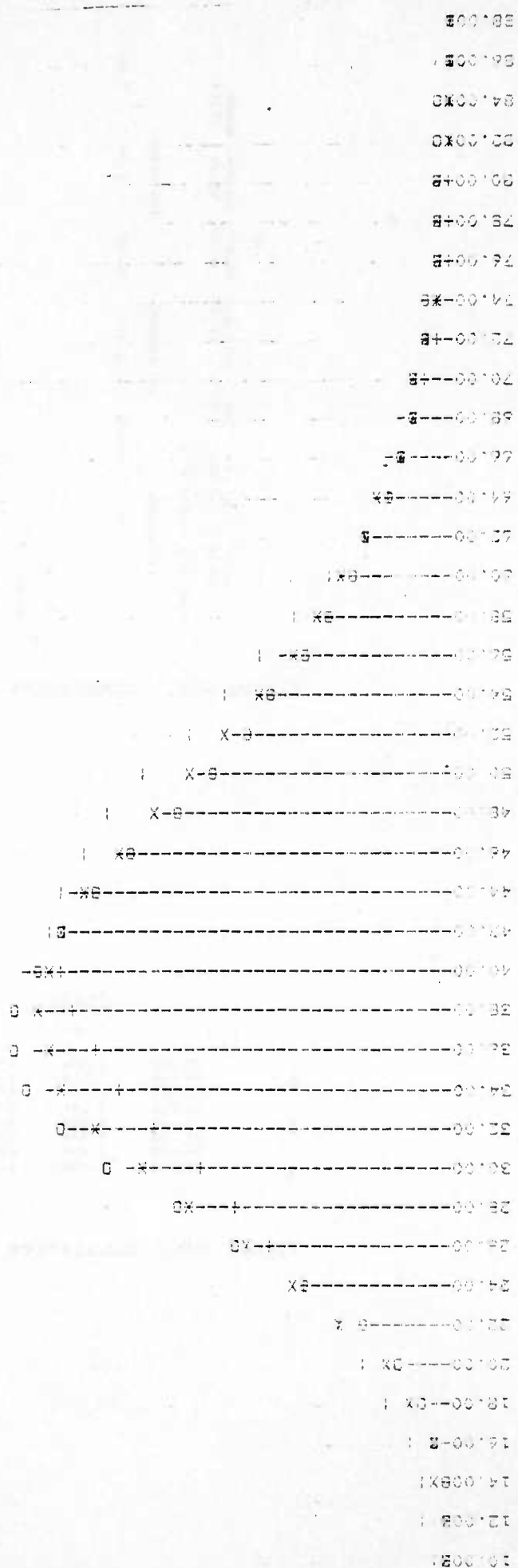


Figure 41. Histogram for Field B

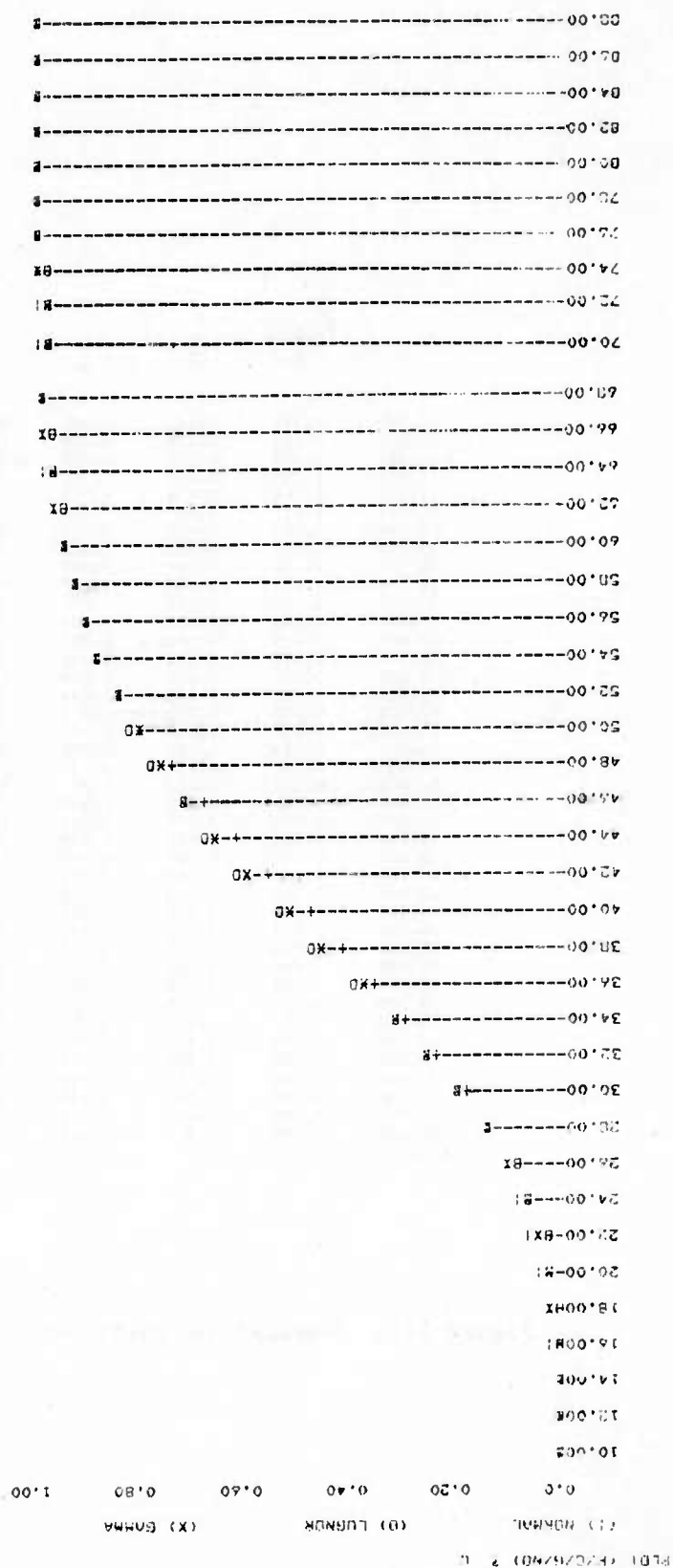


Figure 41a. Cumulative Distribution for Field B

	Field			
	B	N	L	C
10.000	0.000	0.002	0.000	0.000
12.000	0.000	0.005	0.000	0.000
14.000	0.000	0.010	0.000	0.002
16.000	0.001	0.017	0.001	0.005
18.000	0.004	0.026	0.005	0.010
20.000	0.011	0.039	0.012	0.021
22.000	0.024	0.057	0.027	0.038
24.000	0.047	0.080	0.051	0.064
26.000	0.079	0.109	0.087	0.098
28.000	0.124	0.145	0.133	0.141
30.000	0.179	0.187	0.191	0.184
32.000	0.243	0.237	0.256	0.253
34.000	0.310	0.292	0.327	0.319
36.000	0.380	0.353	0.401	0.388
38.000	0.451	0.418	0.474	0.457
40.000	0.522	0.485	0.544	0.526
42.000	0.587	0.552	0.610	0.592
44.000	0.650	0.618	0.670	0.654
46.000	0.706	0.681	0.723	0.710
48.000	0.755	0.738	0.770	0.760
50.000	0.797	0.790	0.811	0.803
52.000	0.834	0.835	0.845	0.841
54.000	0.865	0.873	0.874	0.873
56.000	0.893	0.904	0.899	0.900
58.000	0.916	0.929	0.918	0.921
60.000	0.934	0.949	0.935	0.939
62.000	0.948	0.963	0.948	0.953
64.000	0.959	0.974	0.959	0.964
66.000	0.969	0.982	0.967	0.973
68.000	0.976	0.987	0.974	0.980
70.000	0.981	0.991	0.980	0.985
72.000	0.986	0.993	0.984	0.989
74.000	0.989	0.995	0.987	0.992
76.000	0.992	0.996	0.990	0.994
78.000	0.994	0.996	0.992	0.996
80.000	0.996	0.997	0.994	0.997
82.000	0.997	0.997	0.995	0.998
84.000	0.997	0.997	0.996	0.998
86.000	0.998	0.997	0.997	0.999
88.000	0.998	0.997	0.998	0.999

5 0.00 5 3.341

Figure 41b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.36	4.91	15	25.00	59.40	19.00	23.91

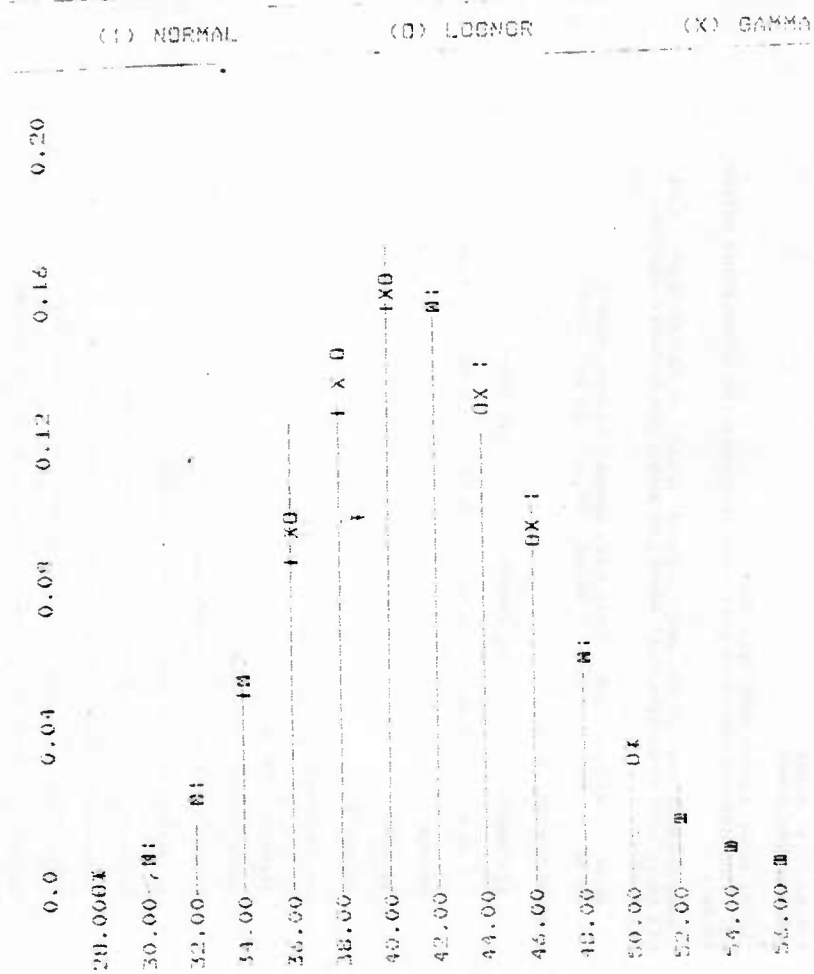


Figure 42. Histogram for Field 3

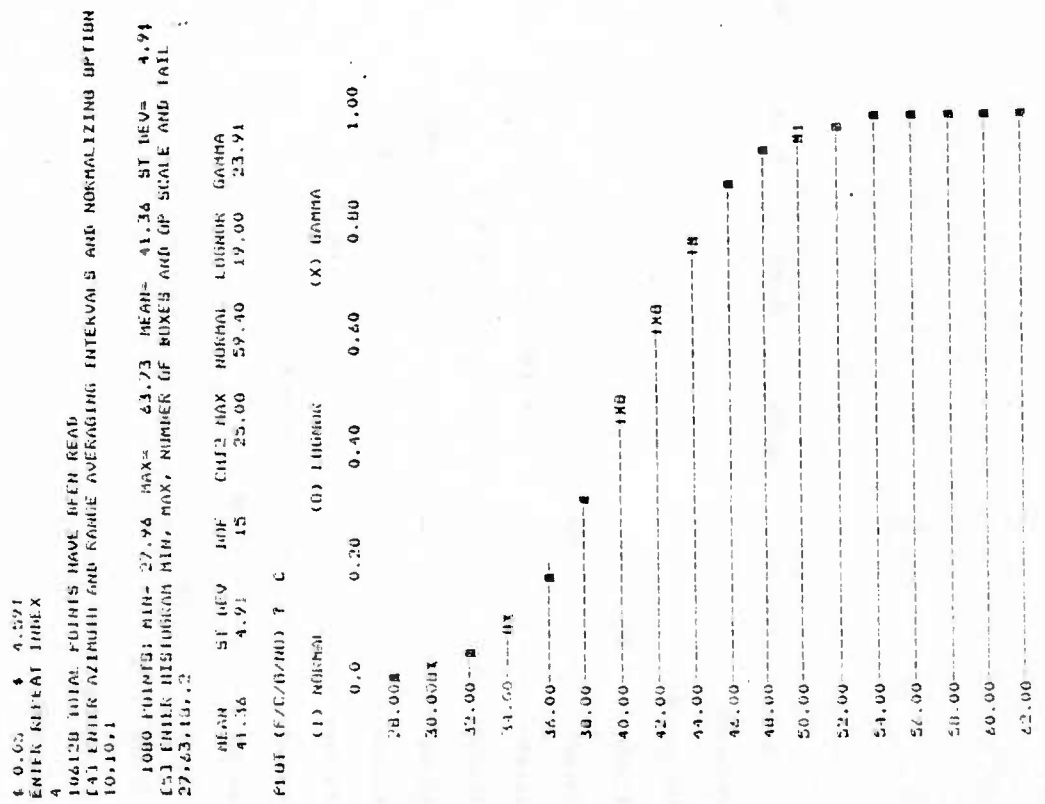


Figure 42a. Cumulative Distribution for Field B

		Field			
		B	N	L	G
)	28.000	0.003	0.004	0.001	0.002
	30.000	0.008	0.016	0.008	0.011
	32.000	0.025	0.043	0.031	0.036
)	34.000	0.079	0.094	0.087	0.092
	36.000	0.202	0.184	0.187	0.189
	38.000	0.399	0.314	0.330	0.324
)	40.000	0.501	0.469	0.494	0.486
	42.000	0.654	0.622	0.651	0.643
	44.000	0.775	0.769	0.781	0.776
)	46.000	0.876	0.873	0.874	0.872
	48.000	0.934	0.938	0.933	0.934
	50.000	0.963	0.973	0.967	0.968
)	52.000	0.985	0.989	0.985	0.986
	54.000	0.994	0.996	0.993	0.994
	56.000	0.995	0.998	0.997	0.997
)	58.000	0.997	0.998	0.999	0.999
	60.000	0.999	0.998	0.999	0.999
	62.000	0.999	0.998	1.000	0.999

Figure 42b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.40	2.84	5	11.07	5.17	2.75	3.13

(1) NORMAL

(2) LOGNOR

(X) GAMMA

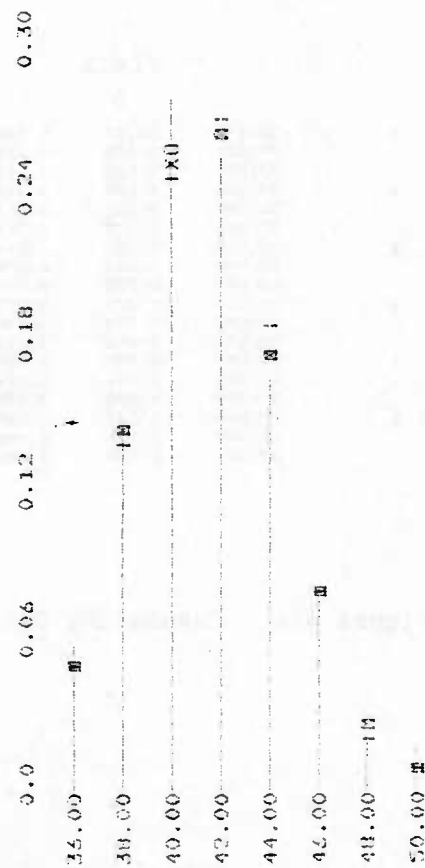


Figure 43. Histogram for Field 3

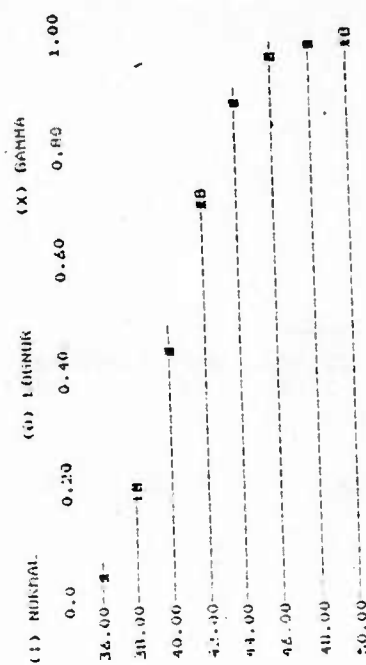


Figure 43a. Cumulative Distribution for Field B

	Field			
	B	N	L	G
36.000	0.057	0.049	0.046	0.047
38.000	0.199	0.187	0.192	0.192
40.000	0.477	0.432	0.450	0.444
42.000	0.727	0.702	0.716	0.710
44.000	0.892	0.895	0.889	0.886
46.000	0.972	0.964	0.964	0.963
48.000	0.989	0.984	0.986	0.985
50.000	1.000	0.988	0.992	0.990

Figure 43b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.37	2.14	1	5.99	3.56	3.33	3.38

() NORMAL

(O) LOGNOR

(X) GAMMA

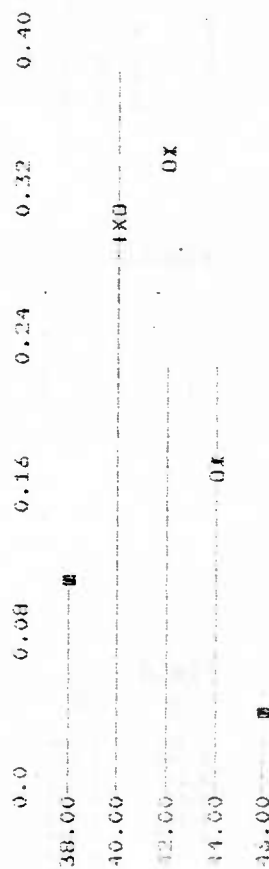


Figure 44. Histogram for Field B

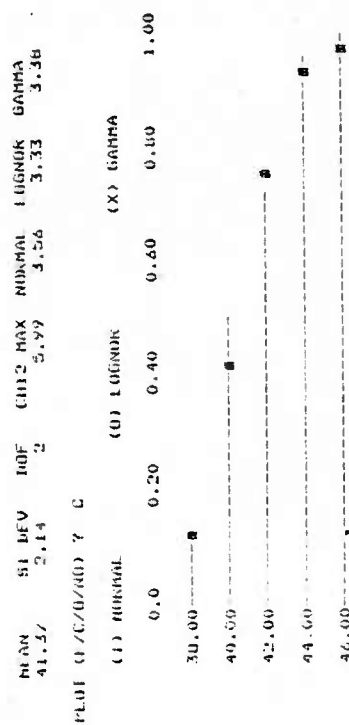


Figure 44a. Cumulative Distribution for Field B

	Field			
	B	N	L	G
30.000	0.114	0.114	0.114	0.114
40.000	0.500	0.411	0.425	0.421
42.000	0.727	0.754	0.765	0.741
44.000	0.955	0.934	0.935	0.934
46.000	1.000	0.975	0.977	0.974

Figure 44b. Cumulative Distribution for Field B

MEAN 45.92 ST DEV 15.48 DOF 37 CH12 MAX 43.7713208.58 NORMAL LOGNOR GAMMA 443.58 3005.29

(O) NORMAL (X) LOGNOR (X) GAMMA

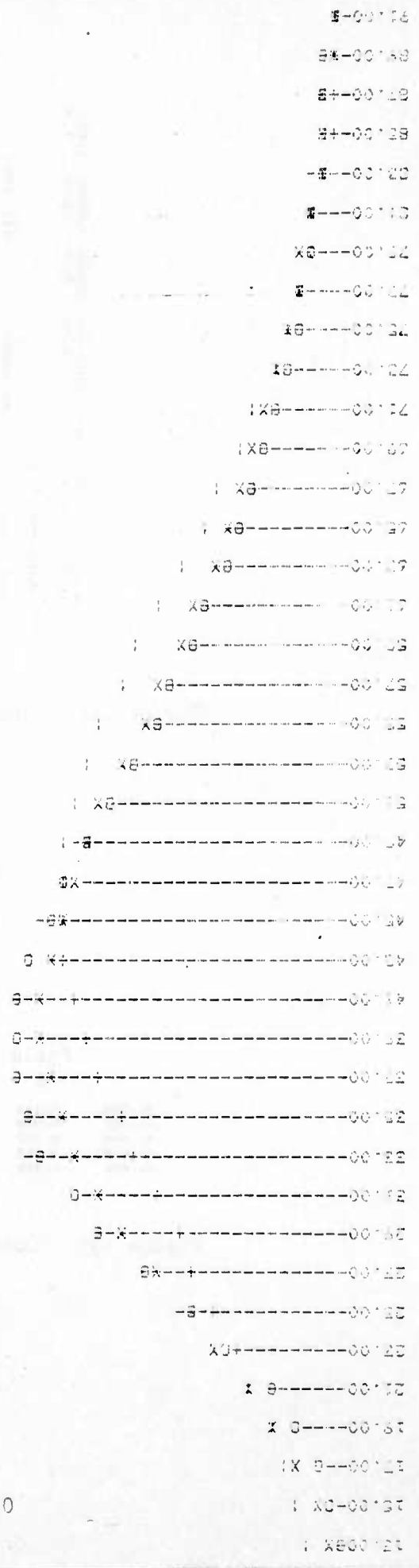


Figure 45. Histogram for Field C

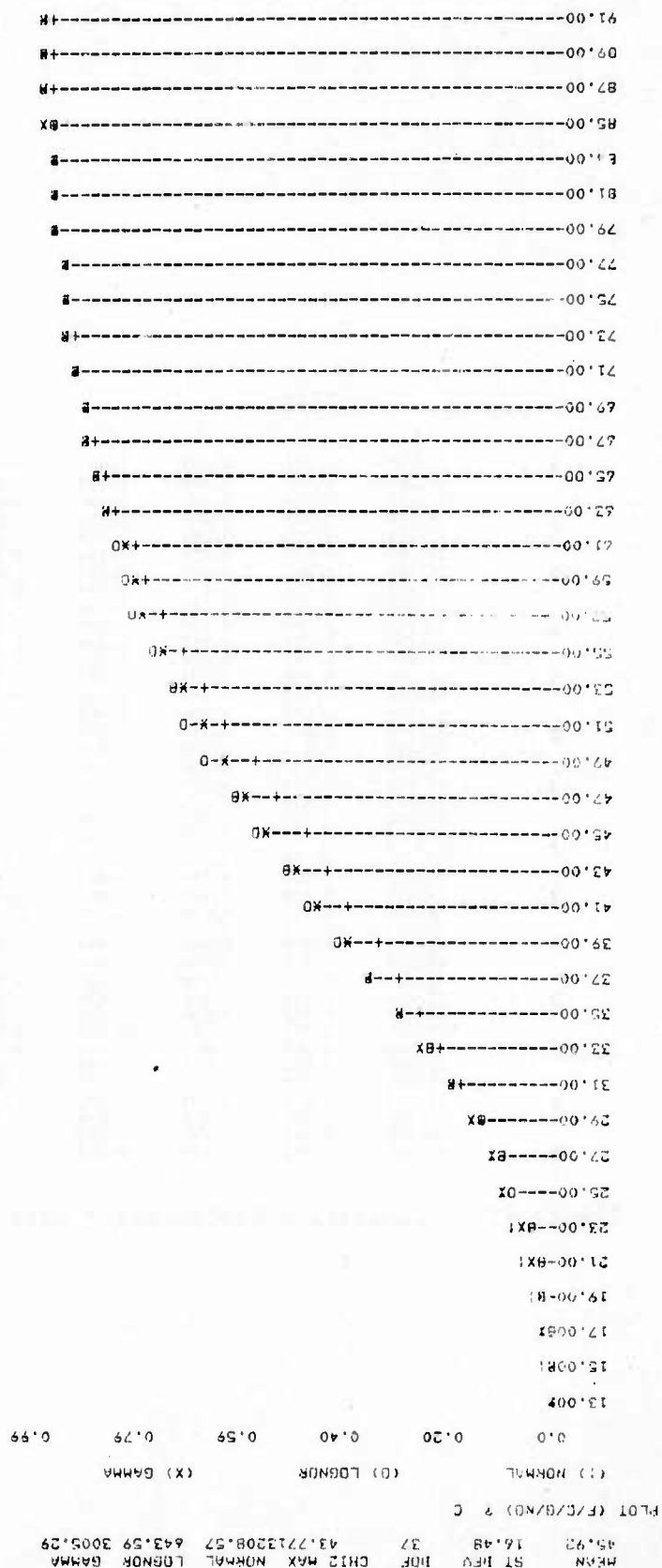


Figure 45a. Cumulative Distribution For Field C

		Field			
		C	N	L	G
D	13.000	0.000	0.007	0.001	0.002
	15.000	0.001	0.015	0.002	0.007
	17.000	0.003	0.025	0.004	0.015
D	19.000	0.009	0.038	0.014	0.027
	21.000	0.021	0.054	0.026	0.043
	23.000	0.038	0.072	0.046	0.064
D	25.000	0.065	0.094	0.073	0.091
	27.000	0.100	0.119	0.107	0.124
	29.000	0.141	0.147	0.148	0.161
D	31.000	0.186	0.179	0.195	0.203
	33.000	0.239	0.215	0.246	0.248
	35.000	0.293	0.254	0.301	0.297
D	37.000	0.348	0.296	0.357	0.347
	39.000	0.403	0.340	0.413	0.398
	41.000	0.458	0.386	0.468	0.449
D	43.000	0.509	0.434	0.521	0.499
	45.000	0.560	0.482	0.571	0.549
	47.000	0.604	0.530	0.619	0.595
D	49.000	0.649	0.579	0.662	0.639
	51.000	0.689	0.624	0.702	0.680
	53.000	0.725	0.668	0.739	0.718
D	55.000	0.758	0.710	0.771	0.753
	57.000	0.788	0.748	0.801	0.785
	59.000	0.815	0.784	0.827	0.814
D	61.000	0.838	0.816	0.850	0.839
	63.000	0.850	0.844	0.870	0.862
	65.000	0.858	0.869	0.887	0.881
D	67.000	0.866	0.890	0.903	0.899
	69.000	0.870	0.908	0.916	0.914
	71.000	0.873	0.923	0.929	0.918
D	73.000	0.874	0.934	0.938	0.939
	75.000	0.874	0.946	0.947	0.949
	77.000	0.872	0.954	0.955	0.957
D	79.000	0.869	0.961	0.961	0.964
	81.000	0.865	0.966	0.967	0.970
	83.000	0.870	0.970	0.971	0.975
D	85.000	0.875	0.973	0.976	0.979
	87.000	0.879	0.975	0.979	0.982
	89.000	0.883	0.976	0.982	0.985
D	91.000	0.886	0.978	0.985	0.988

Figure 45b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.89	9.64	26	39.68	130.05	38.78	53.56

(1) NORMAL

(0) LOGNOR

(X) GAMMA

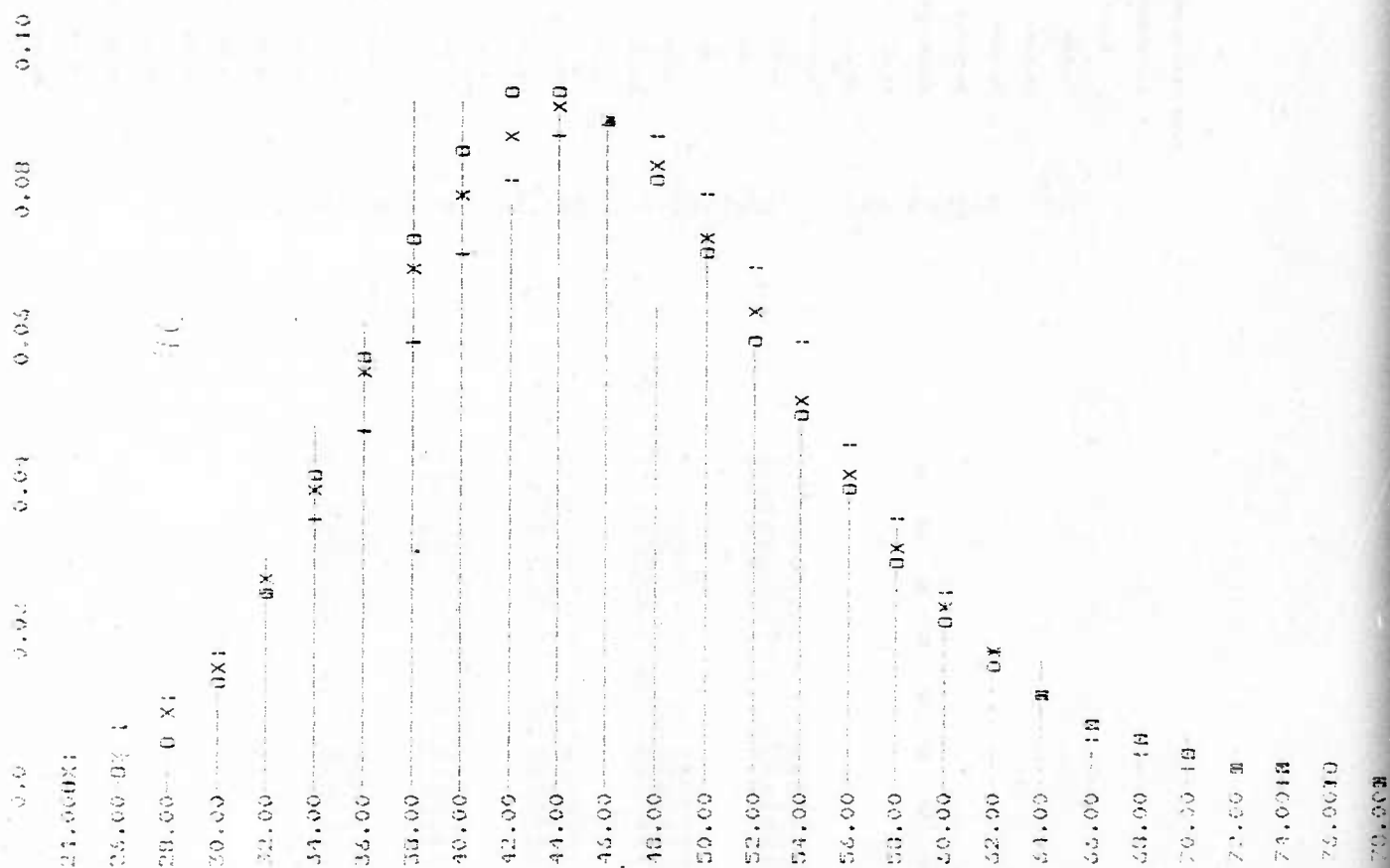


Figure 46. Histogram for Field C

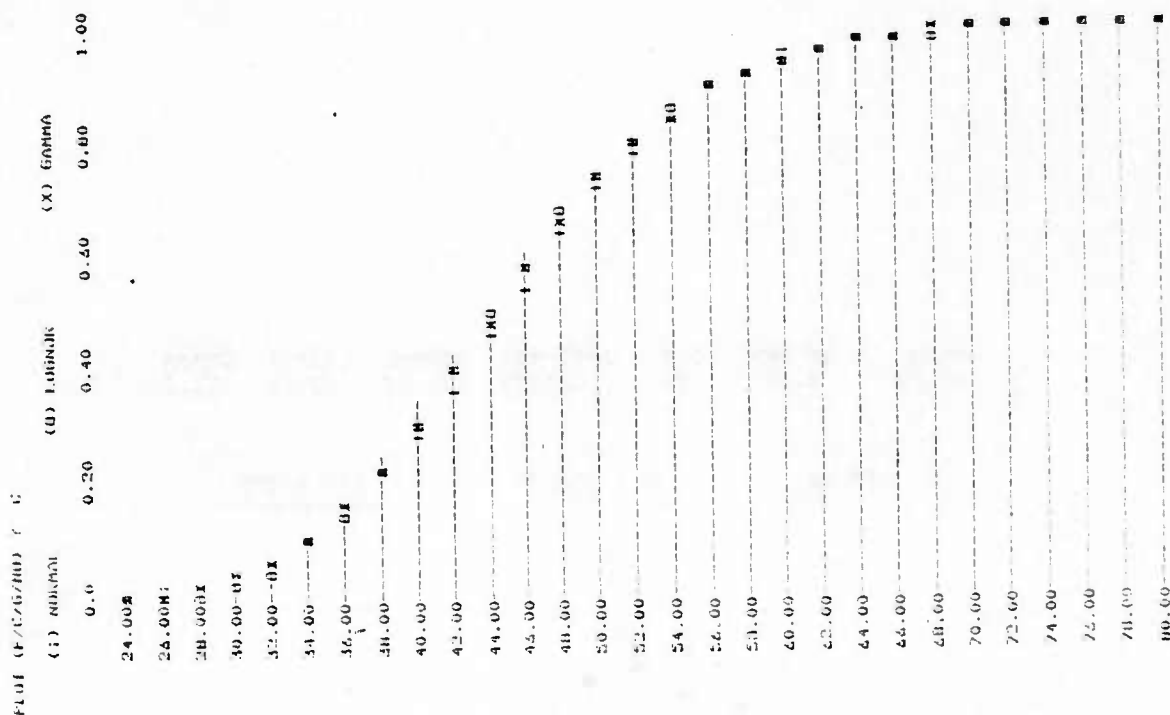


Figure 46a. Cumulative Distribution for Field C

		Field			
		C	N	L	G
D	24.000	0.001	0.004	0.001	0.002
	26.000	0.001	0.012	0.003	0.006
	28.000	0.003	0.033	0.010	0.015
	30.000	0.015	0.041	0.024	0.032
D	32.000	0.044	0.068	0.050	0.059
	34.000	0.092	0.104	0.091	0.100
	36.000	0.153	0.153	0.149	0.155
	38.000	0.245	0.213	0.222	0.224
D	40.000	0.338	0.285	0.309	0.305
	42.000	0.415	0.367	0.402	0.393
	44.000	0.505	0.455	0.497	0.485
	46.000	0.595	0.545	0.588	0.574
D	48.000	0.659	0.633	0.670	0.658
	50.000	0.733	0.714	0.743	0.732
	52.000	0.792	0.785	0.804	0.796
	54.000	0.843	0.844	0.853	0.848
D	56.000	0.884	0.891	0.892	0.890
	58.000	0.918	0.926	0.922	0.922
	60.000	0.942	0.952	0.945	0.946
	62.000	0.960	0.969	0.961	0.963
D	64.000	0.975	0.980	0.973	0.975
	66.000	0.979	0.987	0.982	0.984
	68.000	0.985	0.991	0.988	0.989
	70.000	0.992	0.993	0.992	0.993
D	72.000	0.996	0.994	0.994	0.995
	74.000	0.997	0.995	0.996	0.997
	76.000	0.999	0.995	0.997	0.998
	78.000	0.999	0.995	0.998	0.998
D	80.000	0.999	0.995	0.999	0.999

Figure 46b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
45.73	7.11	15	25.00	33.39	25.31	25.34

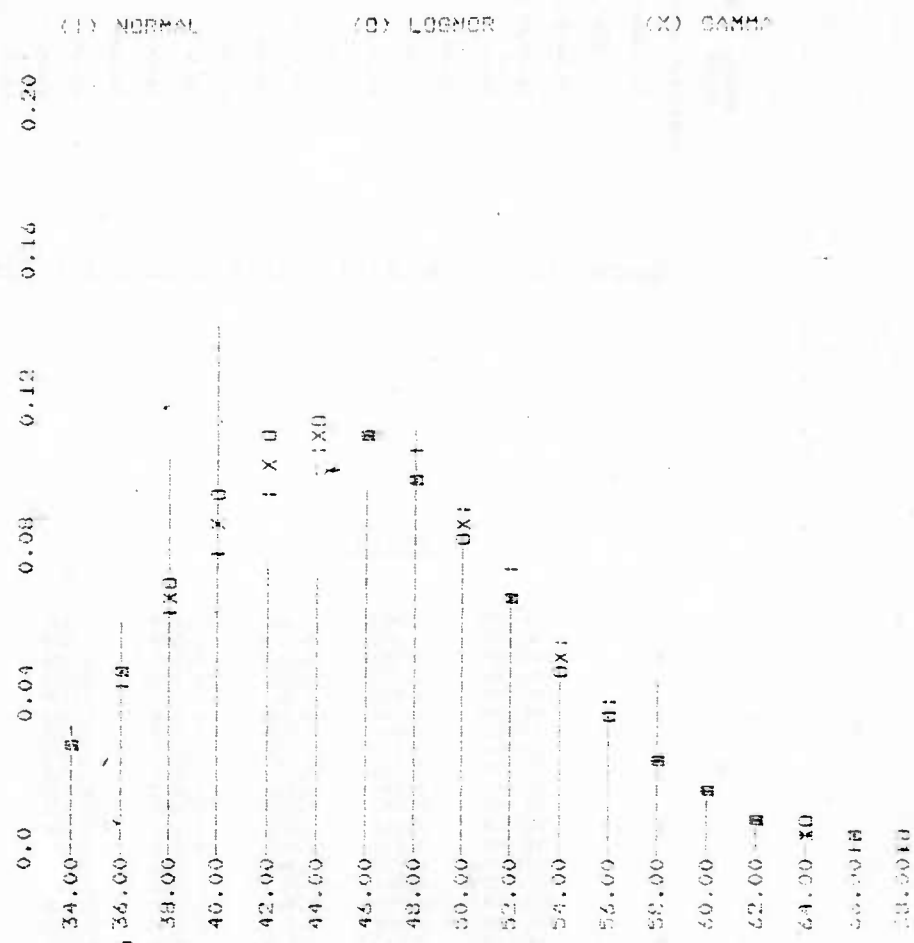


Figure 47. Histogram for Field C

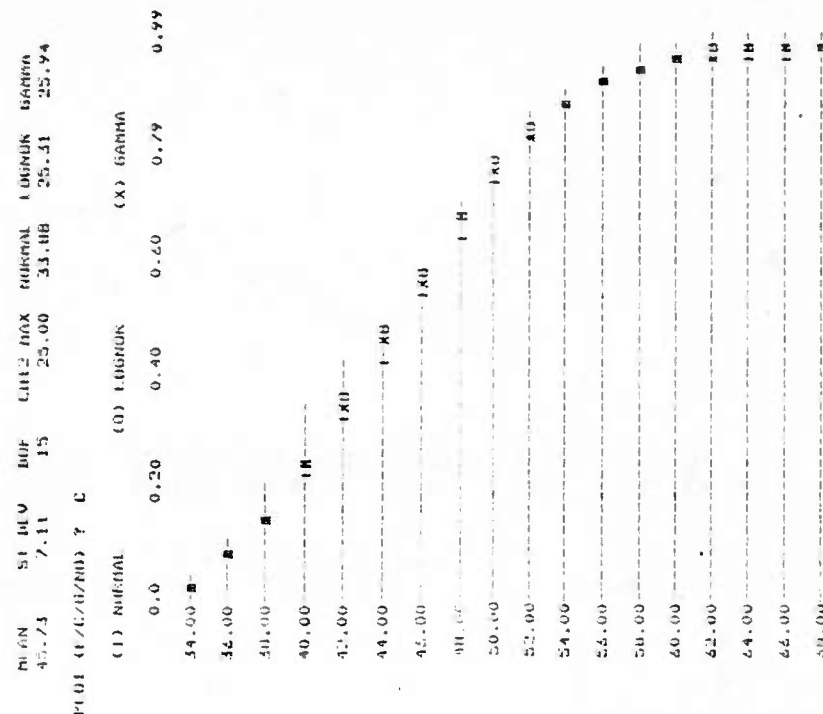


Figure 47a. Cumulative Distribution for Field C

	Field			
	C	N	L	G
	34.000	0.032	0.029	0.029
	36.000	0.092	0.073	0.077
	38.000	0.196	0.135	0.146
	40.000	0.336	0.216	0.236
	42.000	0.412	0.314	0.341
	44.000	0.484	0.422	0.453
	46.000	0.580	0.534	0.564
	48.000	0.692	0.640	0.665
	50.000	0.776	0.734	0.751
	52.000	0.844	0.810	0.820
	54.000	0.892	0.867	0.872
	56.000	0.924	0.907	0.909
	58.000	0.968	0.932	0.934
	60.000	0.980	0.947	0.951
	62.000	0.984	0.956	0.961
	64.000	0.984	0.960	0.966
	66.000	0.988	0.962	0.970
	68.000	0.992	0.963	0.972

Figure 47b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
45.31	6.22	10	19.31	30.21	27.73	27.76

(1) NORMAL

(0) LOGNOR

(X) GAMMA

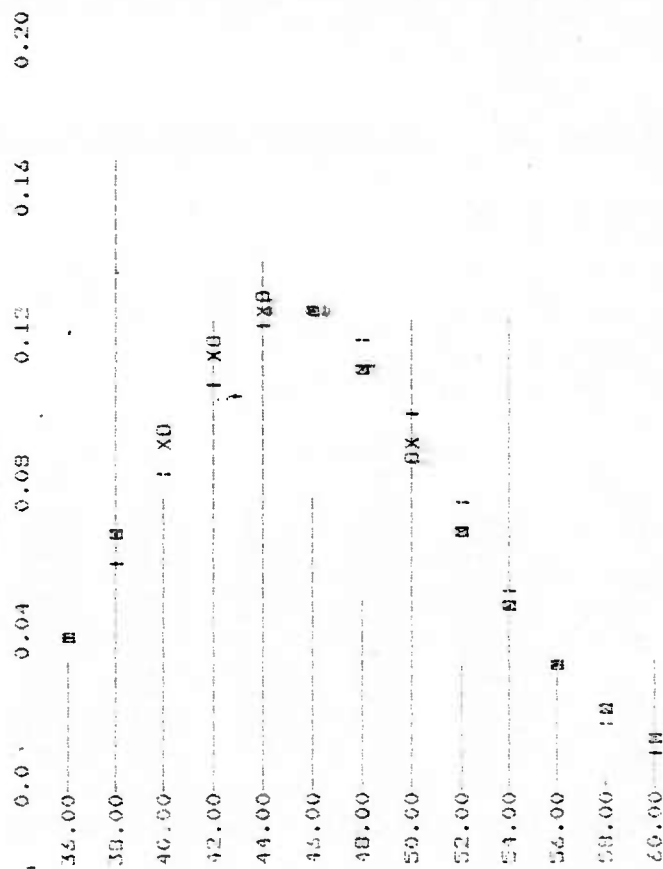


Figure 48. Histogram for Field C

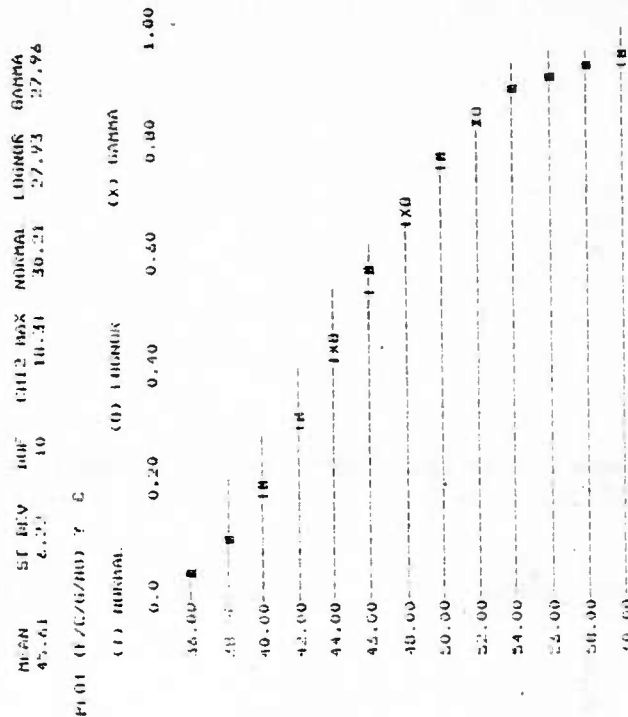


Figure 48a. Cumulative Distribution for Field C

		Field			
		C	N	L	G
3	36.000	0.031	0.039	0.040	0.041
	38.000	0.200	0.100	0.108	0.107
	40.000	0.277	0.185	0.206	0.200
2	42.000	0.400	0.293	0.327	0.316
	44.000	0.538	0.417	0.459	0.444
	46.000	0.615	0.544	0.585	0.570
1	48.000	0.662	0.663	0.696	0.683
	50.000	0.785	0.763	0.786	0.775
	52.000	0.815	0.838	0.852	0.845
0	54.000	0.938	0.890	0.898	0.893
	56.000	0.969	0.922	0.928	0.924
	58.000	0.989	0.940	0.947	0.943
0	60.000	1.000	0.949	0.958	0.954

Figure 48b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
11.45	5.42	11	19.68	29.01	29.40	13.25

() NORMAL

(O) LOGNOR

(X) GAMMA

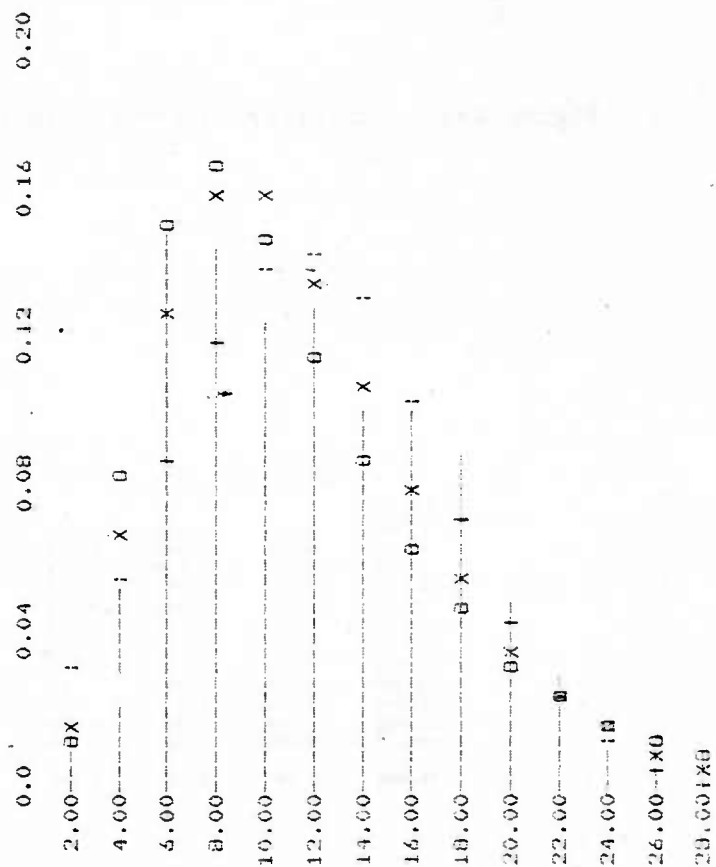


Figure 49. Histogram for Mountain

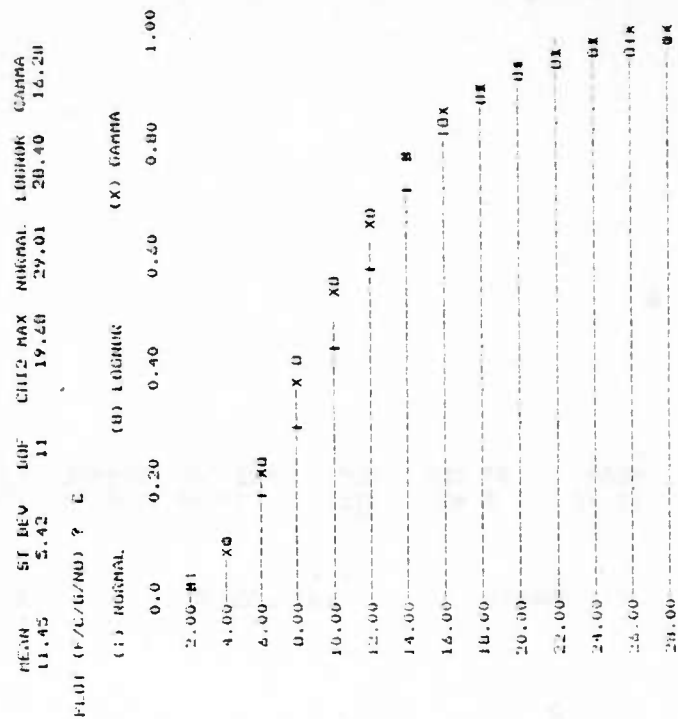


Figure 49a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.013	0.033	0.012	0.013
4.000	0.066	0.090	0.096	0.085
6.000	0.213	0.179	0.249	0.212
8.000	0.357	0.299	0.417	0.371
10.000	0.482	0.440	0.565	0.529
12.000	0.619	0.589	0.692	0.665
14.000	0.708	0.717	0.771	0.774
16.000	0.807	0.820	0.835	0.852
18.000	0.895	0.891	0.881	0.895
20.000	0.944	0.934	0.914	0.942
22.000	0.974	0.956	0.939	0.960
24.000	0.984	0.967	0.955	0.970
26.000	0.991	0.971	0.965	0.975
28.000	0.997	0.972	0.975	0.993

Figure 49b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
11.30	5.38	11	19.62	102.57	364.53	134.00

(1) NORMAL

(0) LOGNOR

(X) GAMMA

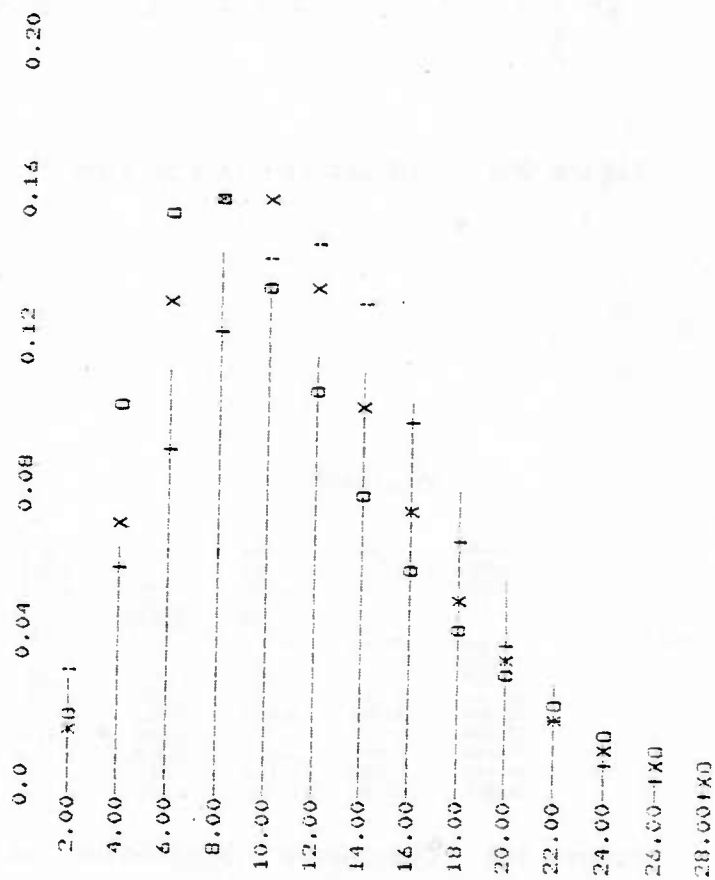


Figure 50. Histogram for Mountain

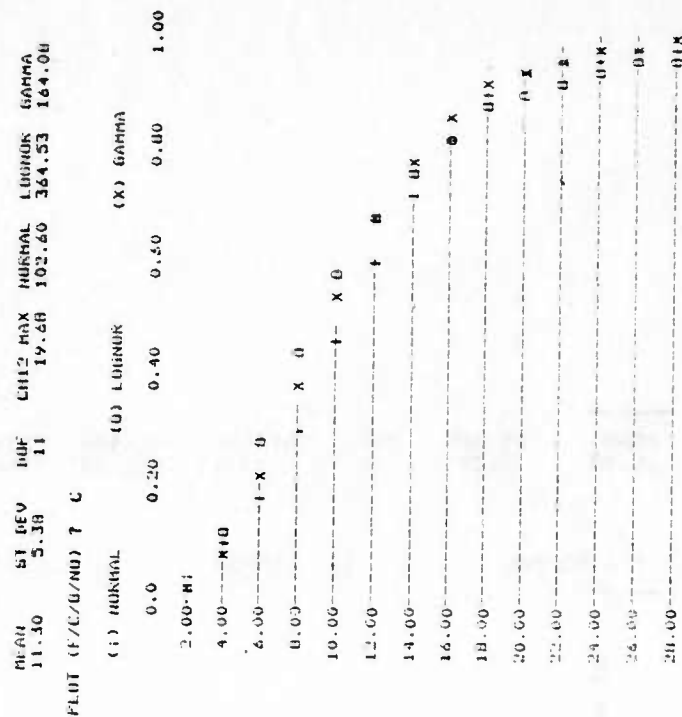


Figure 50a. Cumulative Distribution for Mountain

Mountain N L G				
2.000	0.027	0.034	0.021	0.017
4.000	0.093	0.093	0.124	0.090
6.000	0.206	0.184	0.291	0.221
8.000	0.349	0.307	0.441	0.382
10.000	0.500	0.450	0.579	0.511
12.000	0.601	0.550	0.685	0.624
14.000	0.712	0.726	0.764	0.782
16.000	0.811	0.827	0.827	0.850
18.000	0.894	0.894	0.871	0.911
20.000	0.940	0.934	0.904	0.945
22.000	0.977	0.957	0.928	0.957
24.000	0.990	0.967	0.945	0.980
26.000	0.996	0.970	0.959	0.992
28.000	0.999	0.972	0.960	0.993

Figure 50b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
11.21	3.84	17	27.59	3394.00	1571.96	12.50

(.) NORMAL

(O) LOGNOR

(X) GAMMA

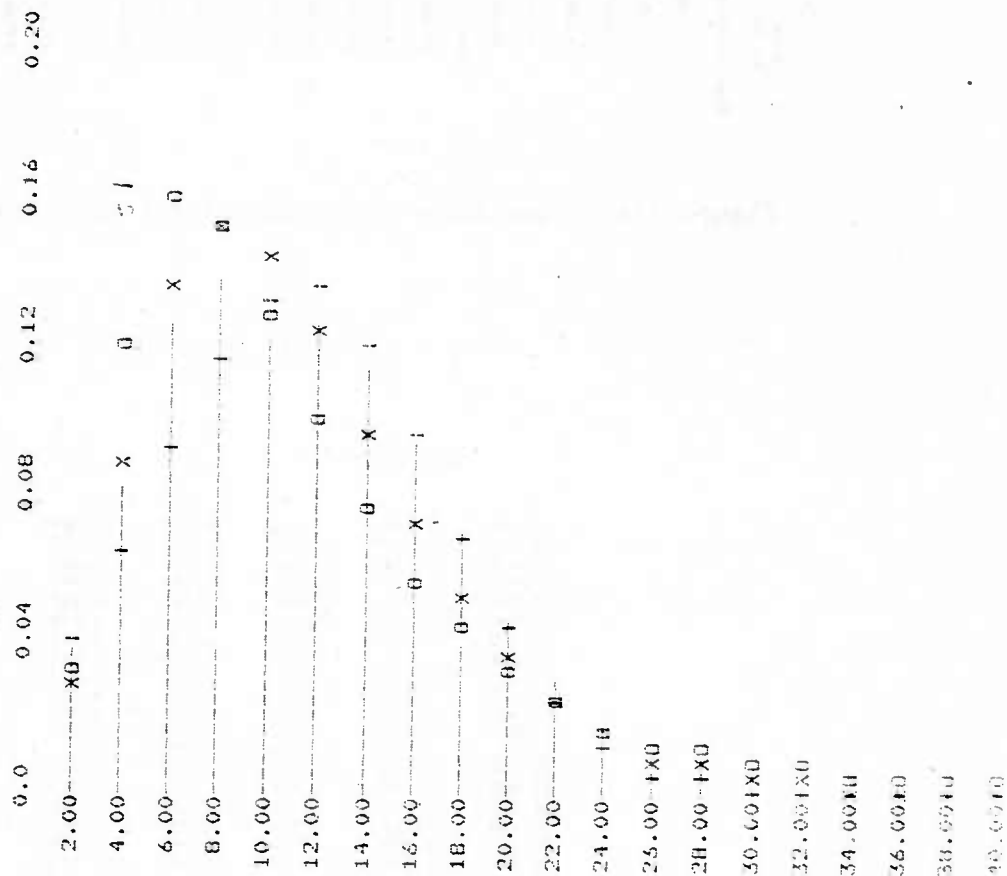


Figure 51. Histogram for Mountain

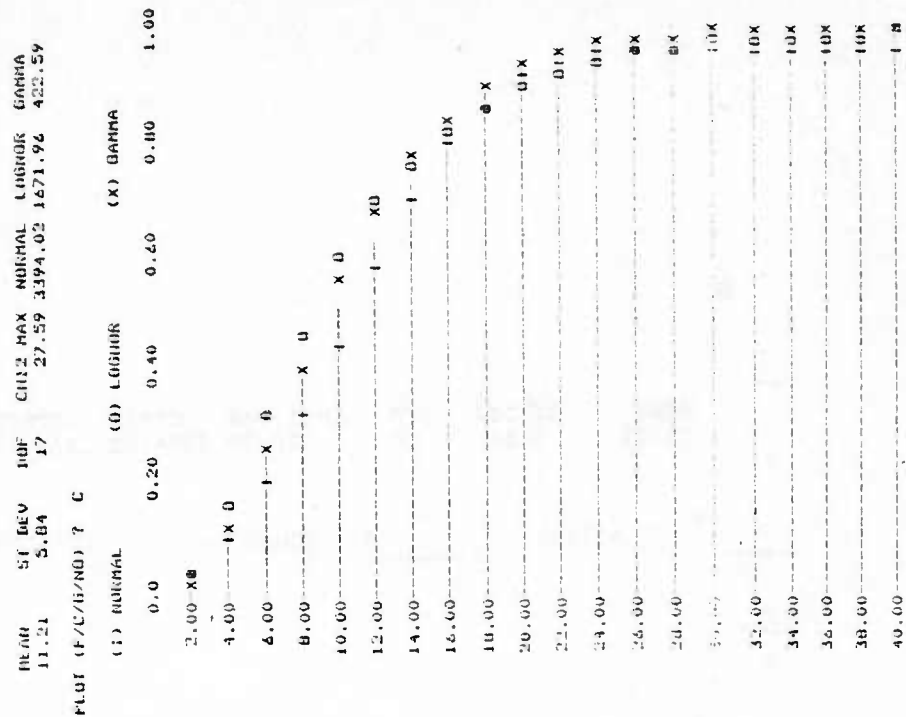


Figure 51a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.034	0.040	0.033	0.029
4.000	0.113	0.104	0.152	0.118
6.000	0.236	0.195	0.312	0.255
8.000	0.371	0.313	0.464	0.409
10.000	0.493	0.446	0.531	0.555
12.000	0.616	0.580	0.691	0.679
14.000	0.728	0.702	0.746	0.775
16.000	0.822	0.799	0.823	0.847
18.000	0.899	0.869	0.865	0.894
20.000	0.935	0.913	0.897	0.934
22.000	0.962	0.938	0.920	0.957
24.000	0.977	0.951	0.938	0.973
26.000	0.986	0.956	0.952	0.983
28.000	0.993	0.958	0.962	0.989
30.000	0.995	0.959	0.970	0.993
32.000	0.997	0.960	0.976	0.995
34.000	0.998	0.960	0.981	0.997
36.000	0.999	0.960	0.985	0.998
38.000	1.000	0.960	0.988	0.998
40.000	1.000	0.960	0.990	0.999

Figure 51b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
11.09	5.73	17	27.59	5073.72	3048.42	711.70

(1) NORMAL

(2) LOGNOR

(X) GAMMA

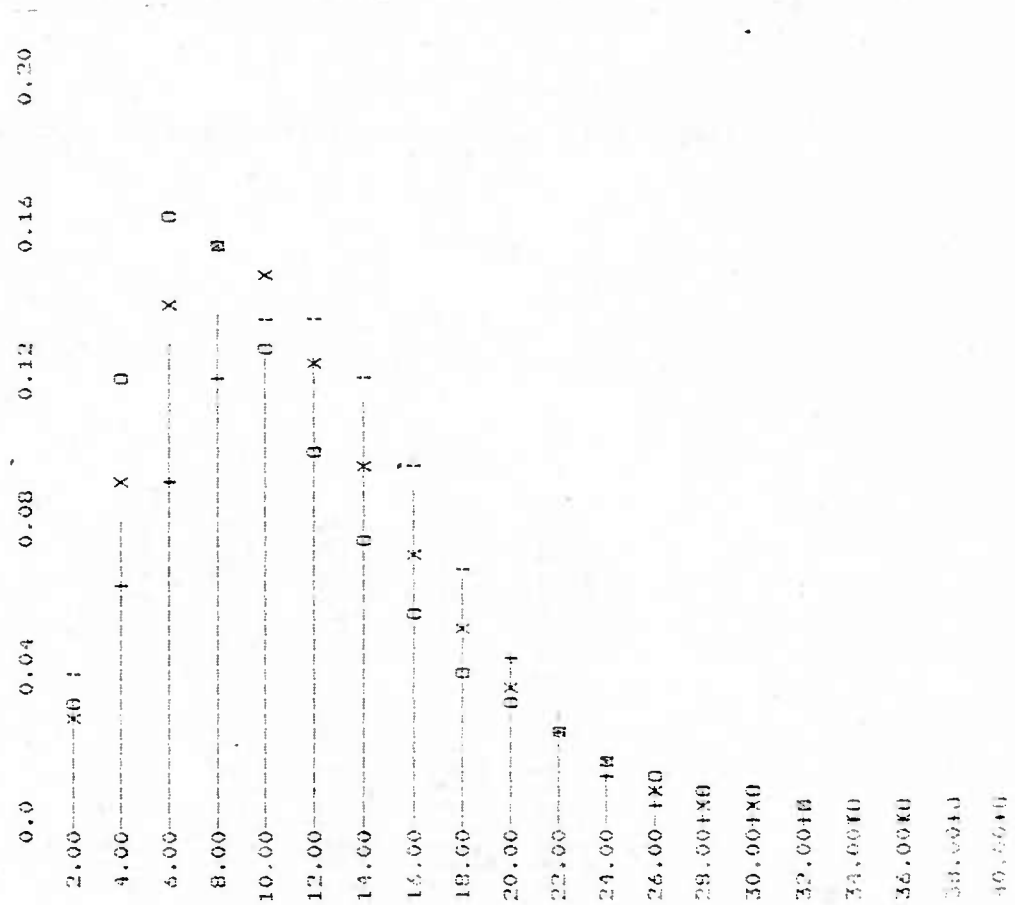


Figure 52. Histogram for Mountain

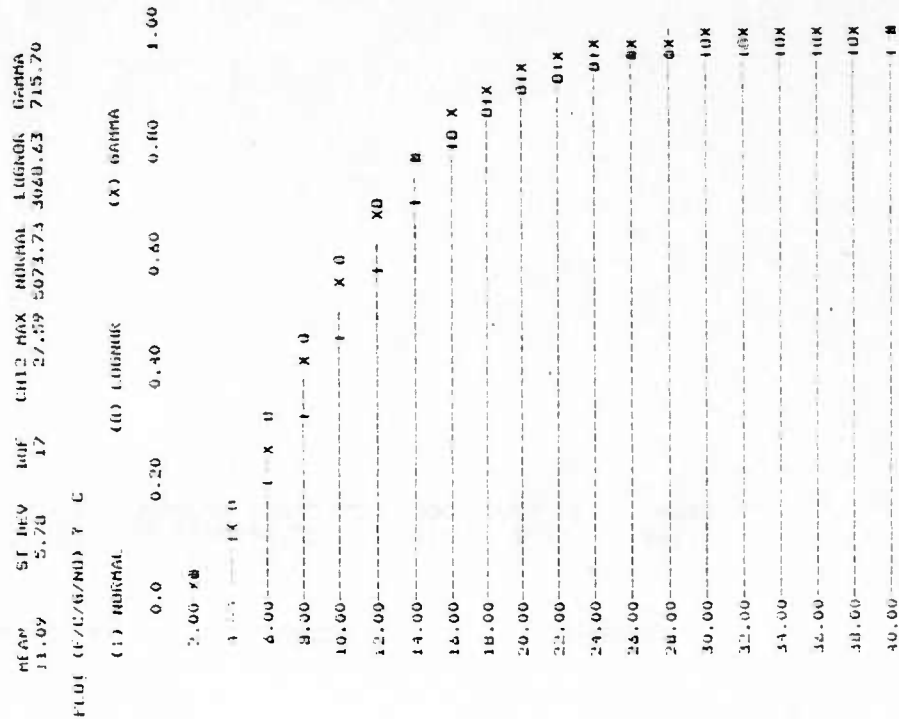


Figure 52a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.033	0.040	0.032	0.030
4.000	0.113	0.106	0.153	0.121
6.000	0.242	0.199	0.315	0.260
8.000	0.377	0.318	0.470	0.416
10.000	0.501	0.453	0.597	0.562
12.000	0.627	0.589	0.697	0.685
14.000	0.739	0.710	0.772	0.781
16.000	0.828	0.806	0.828	0.852
18.000	0.892	0.874	0.870	0.902
20.000	0.936	0.916	0.901	0.937
22.000	0.962	0.930	0.924	0.959
24.000	0.978	0.951	0.941	0.974
26.000	0.987	0.957	0.955	0.984
28.000	0.994	0.959	0.964	0.990
30.000	0.996	0.959	0.972	0.993
32.000	0.998	0.959	0.979	0.996
34.000	0.999	0.957	0.982	0.997
36.000	0.999	0.959	0.986	0.998
38.000	1.000	0.959	0.989	0.998
40.000	1.000	0.959	0.991	0.999

Figure 52b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.22	5.45	15	25.00	61.66	20.10	20.21

(1) NORMAL

(O) LOGNOR

(X) GAMMA

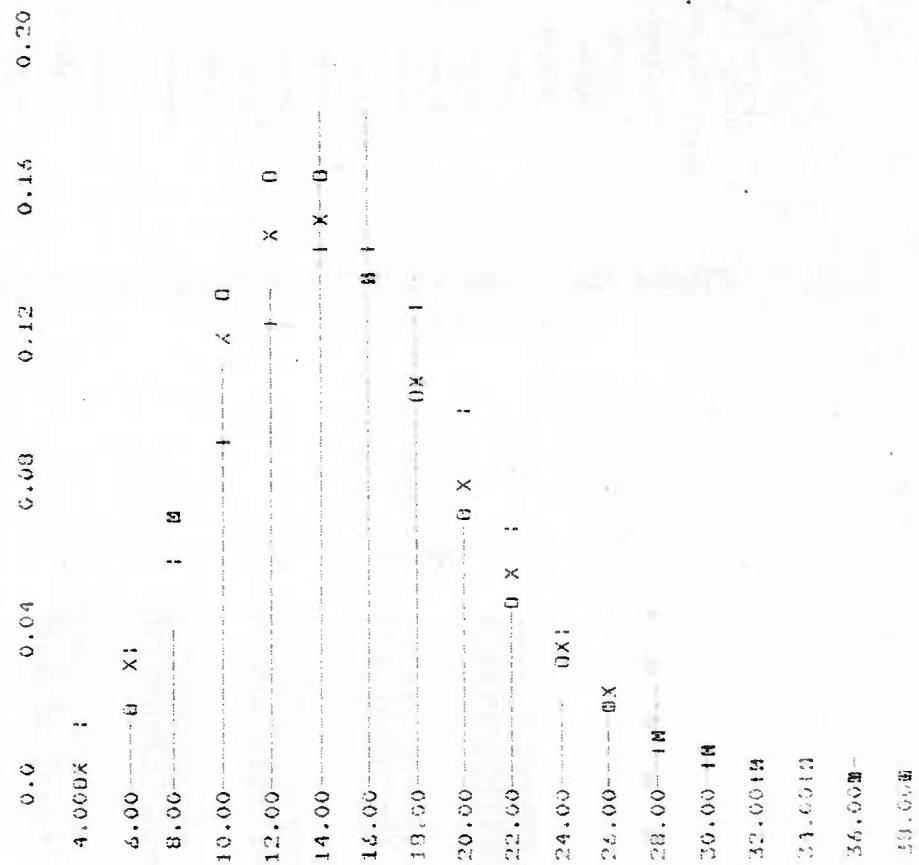


Figure 53. Histogram for Mountain

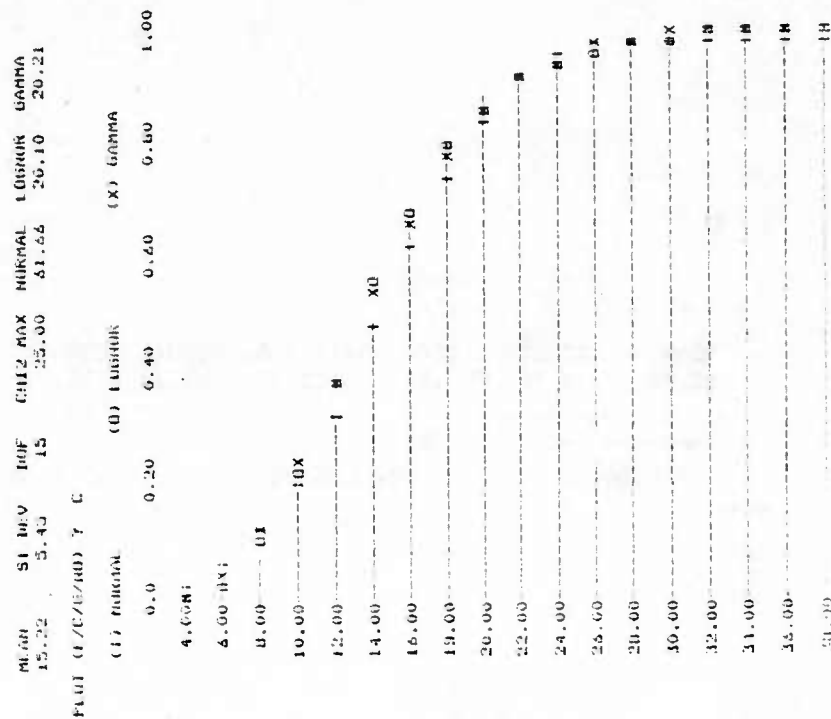


Figure 53a. Cumulative Distribution for Mountain

	Mountain	N	L	G
4.000	0.004	0.018	0.001	0.006
8.000	0.023	0.053	0.020	0.036
12.000	0.063	0.114	0.091	0.110
16.000	0.178	0.297	0.224	0.230
20.000	0.309	0.529	0.389	0.379
24.000	0.498	0.771	0.552	0.531
28.000	0.658	0.888	0.688	0.667
32.000	0.805	0.943	0.791	0.774
36.000	0.925	0.985	0.863	0.853
40.000	0.971	0.991	0.913	0.912
44.000	0.978	0.991	0.915	0.948
48.000	0.983	0.972	0.945	0.970
52.000	0.977	0.982	0.978	0.983
56.000	0.984	0.984	0.987	0.991
60.000	0.988	0.987	0.992	0.995
64.000	0.988	0.987	0.995	0.997
68.000	0.992	0.988	0.997	0.998
72.000	0.992	0.988	0.998	0.999

Figure 53b. Cumulative Distribution for Mountain

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
16.53	5.32	13	25.00	388.50	32.13	34.51

(1) NORMAL

(O) LOGNOR

(X) GAMMA

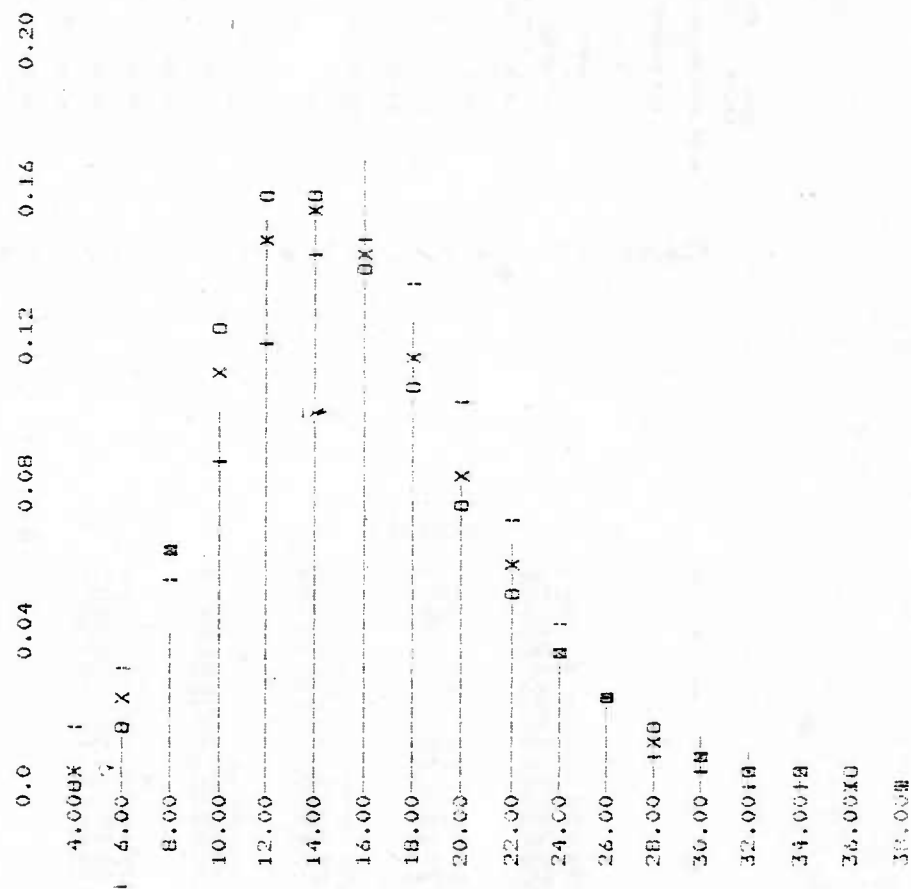


Figure 34. Histogram for Mountain

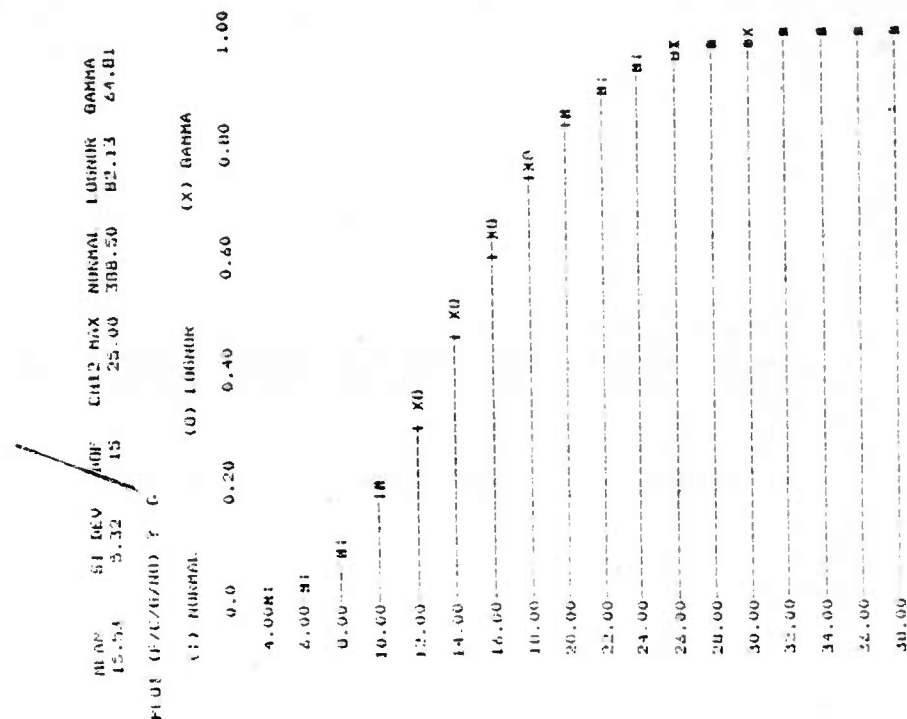


Figure 54a. Cumulative Distribution for Mountain

	Mountain	N	L	G
)	4.000	0.003	0.015	0.001
	6.000	0.017	0.045	0.017
	8.000	0.057	0.101	0.060
)	10.000	0.157	0.188	0.205
	12.000	0.307	0.308	0.355
	14.000	0.468	0.451	0.527
)	16.000	0.635	0.599	0.666
	18.000	0.753	0.733	0.773
	20.000	0.837	0.839	0.850
)	22.000	0.902	0.910	0.909
	24.000	0.945	0.953	0.947
	26.000	0.959	0.975	0.961
)	28.000	0.976	0.985	0.975
	30.000	0.987	0.989	0.985
	32.000	0.993	0.990	0.990
)	34.000	0.997	0.991	0.994
	36.000	0.999	0.991	0.996
	38.000	0.999	0.991	0.999

Figure 54b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.29	5.21	17	27.59	1225.44	1035.44	197.79

(I) NORMAL

(O) LOGNOR

(X) GAMMA

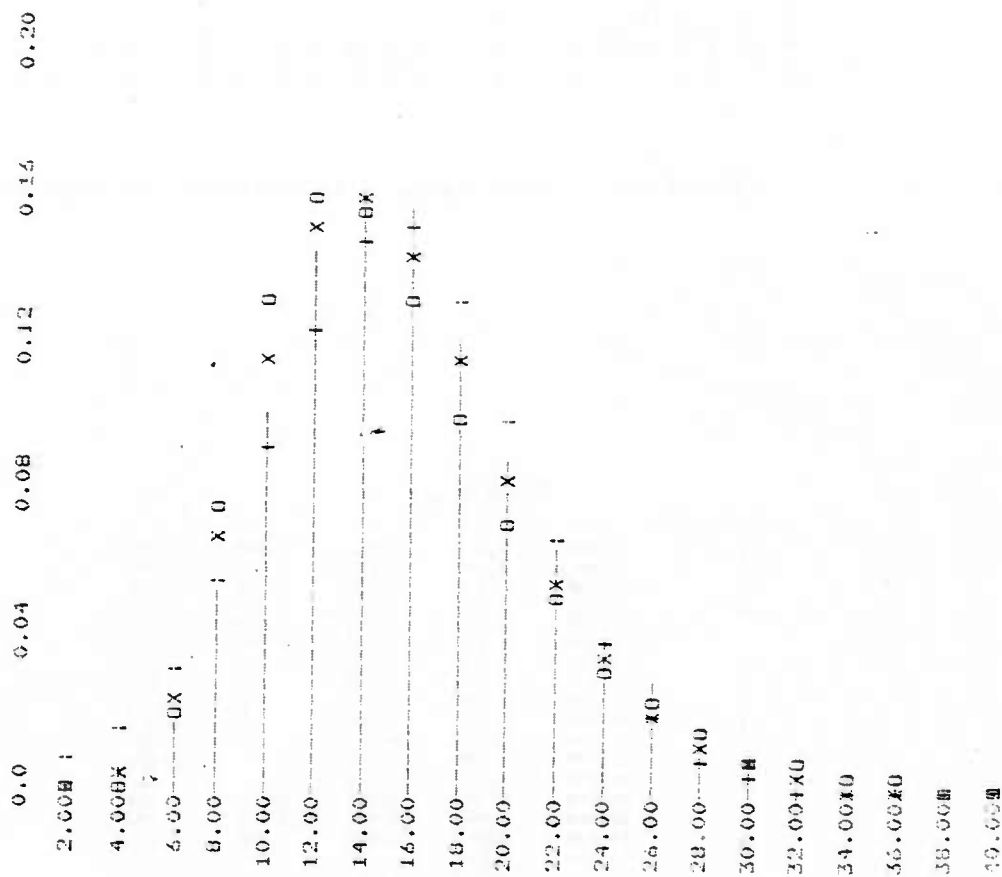


Figure 55. Histogram for Mountain

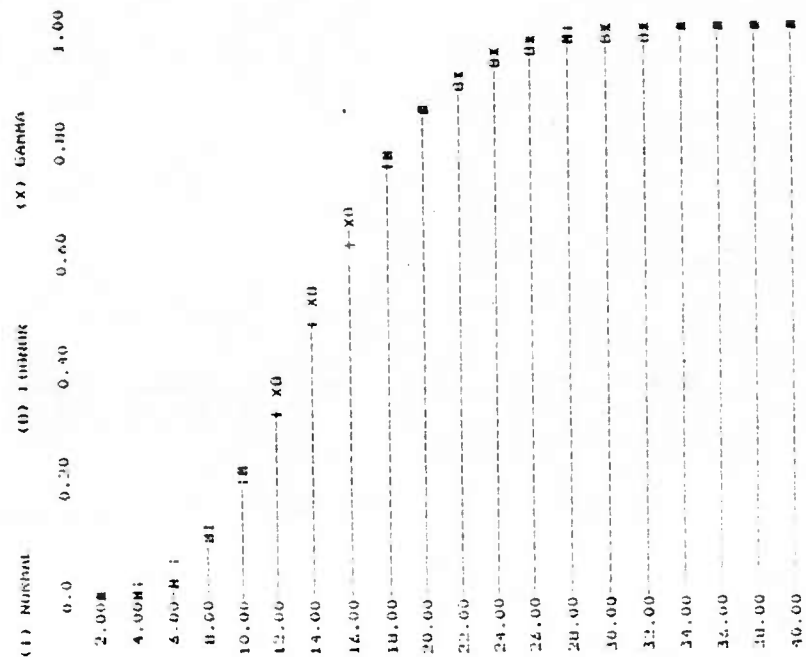


Figure 55a. Cumulative Distribution for Mountain

	Mountain	N	L	G
	2,000	0.001	0.006	0.000
	4,000	0.005	0.021	0.004
	6,000	0.022	0.053	0.029
	8,000	0.075	0.111	0.095
	10,000	0.176	0.202	0.212
	12,000	0.322	0.327	0.344
	14,000	0.480	0.475	0.523
	16,000	0.635	0.626	0.666
	18,000	0.754	0.759	0.780
	20,000	0.841	0.860	0.863
	22,000	0.905	0.927	0.919
	24,000	0.945	0.966	0.954
	26,000	0.971	0.985	0.979
	28,000	0.987	0.993	0.986
	30,000	0.993	0.996	0.993
	32,000	0.997	0.997	0.996
	34,000	0.999	0.997	0.999
	36,000	1.000	0.997	1.000
	38,000	1.000	0.997	1.000
	40,000	1.000	0.997	1.000

Figure 55b. Cumulative Distribution Data

MEAN	ST DEV	OCF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.30	5.45	17	27.59	2548.60	1570.51	322.32

(1) NORMAL

(0) LOGNOR

(X) GAMMA

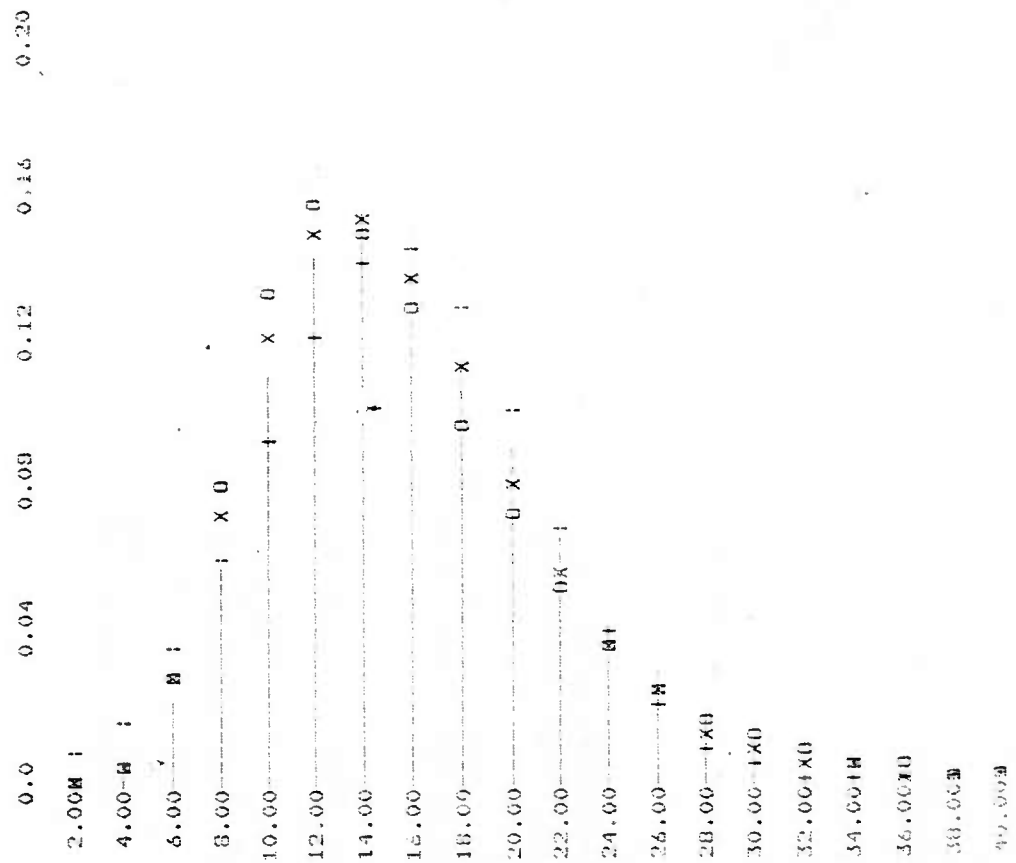


Figure 56. Histogram for Mountain

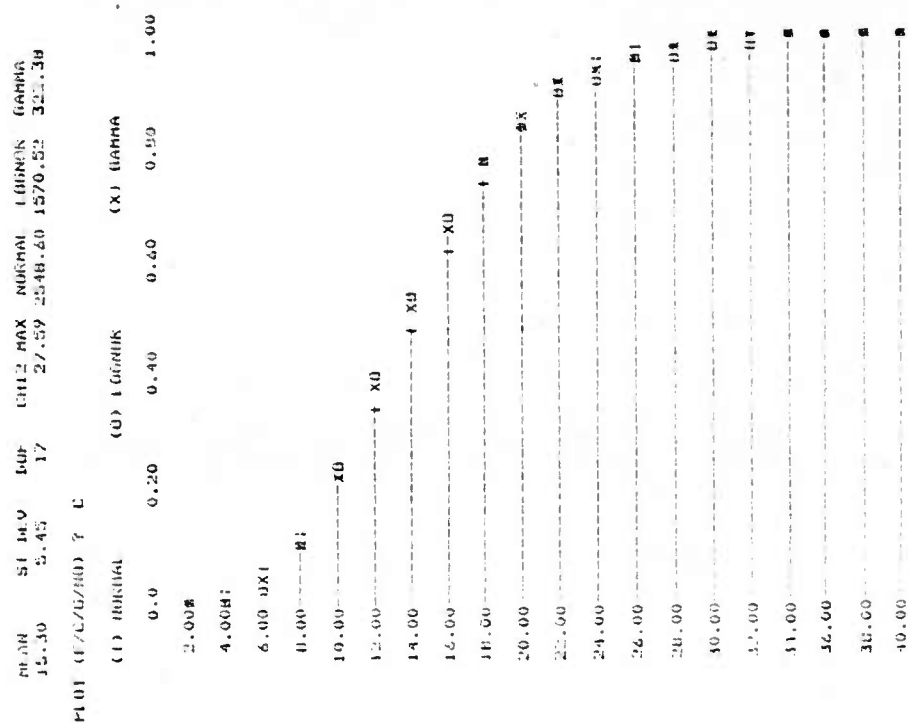


Figure 56a. Cumulative Distribution for Mountain

	Mountain	N	L	G
	2.000	0.001	0.008	0.000
	4.000	0.004	0.025	0.003
	6.000	0.007	0.060	0.009
	8.000	0.014	0.120	0.010
	10.000	0.023	0.211	0.025
	12.000	0.335	0.330	0.400
	14.000	0.483	0.474	0.549
	16.000	0.530	0.518	0.576
	18.000	0.744	0.747	0.773
	20.000	0.831	0.847	0.845
	22.000	0.897	0.917	0.895
	24.000	0.938	0.958	0.930
	26.000	0.955	0.980	0.953
	28.000	0.963	0.990	0.969
	30.000	0.991	0.994	0.980
	32.000	0.996	0.995	0.986
	34.000	0.998	0.995	0.991
	36.000	0.999	0.995	0.994
	38.000	1.000	0.995	0.995
	40.000	1.000	0.995	0.997

Figure 56b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.18	3.34	20	31.4147069	98	1871.12	303.24

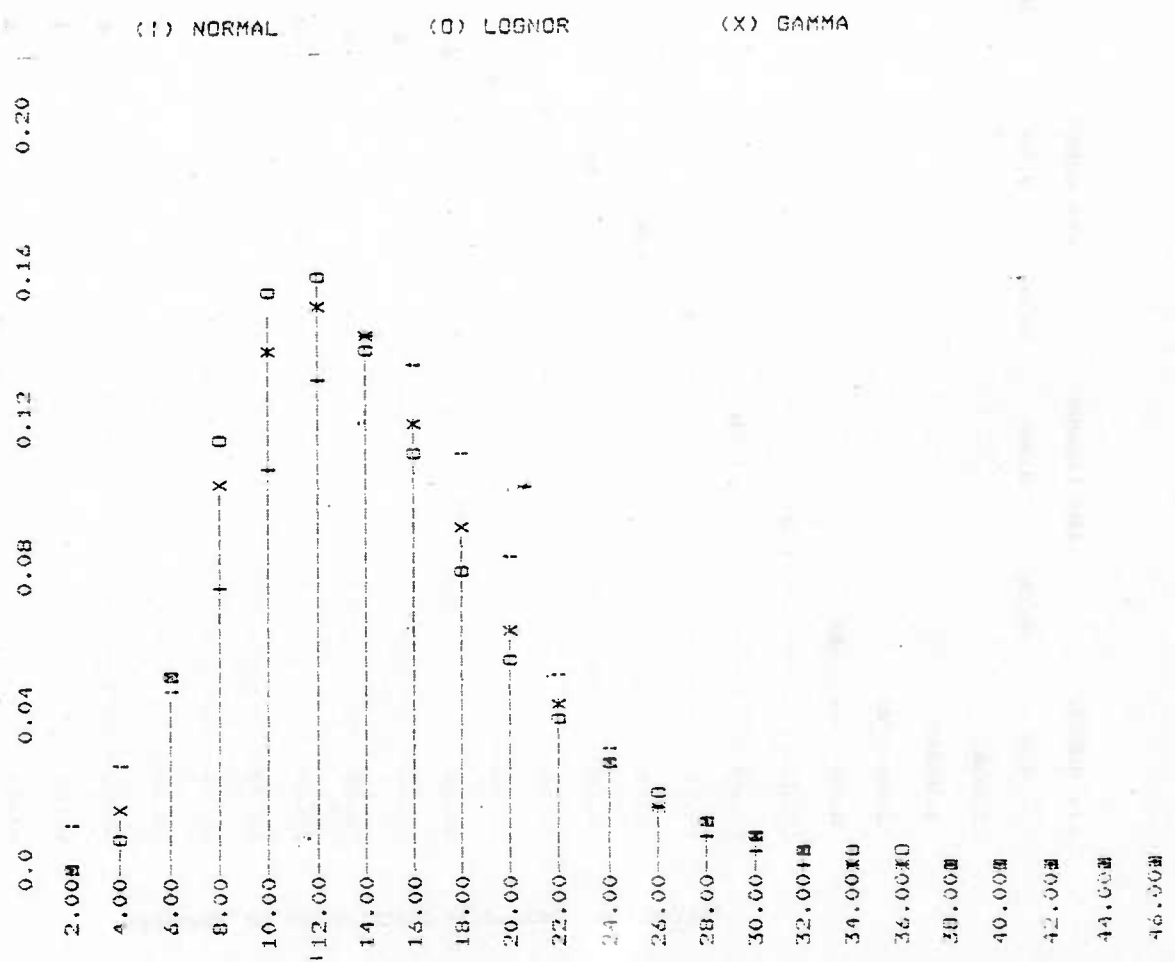


Figure 57. Histogram for Mountain

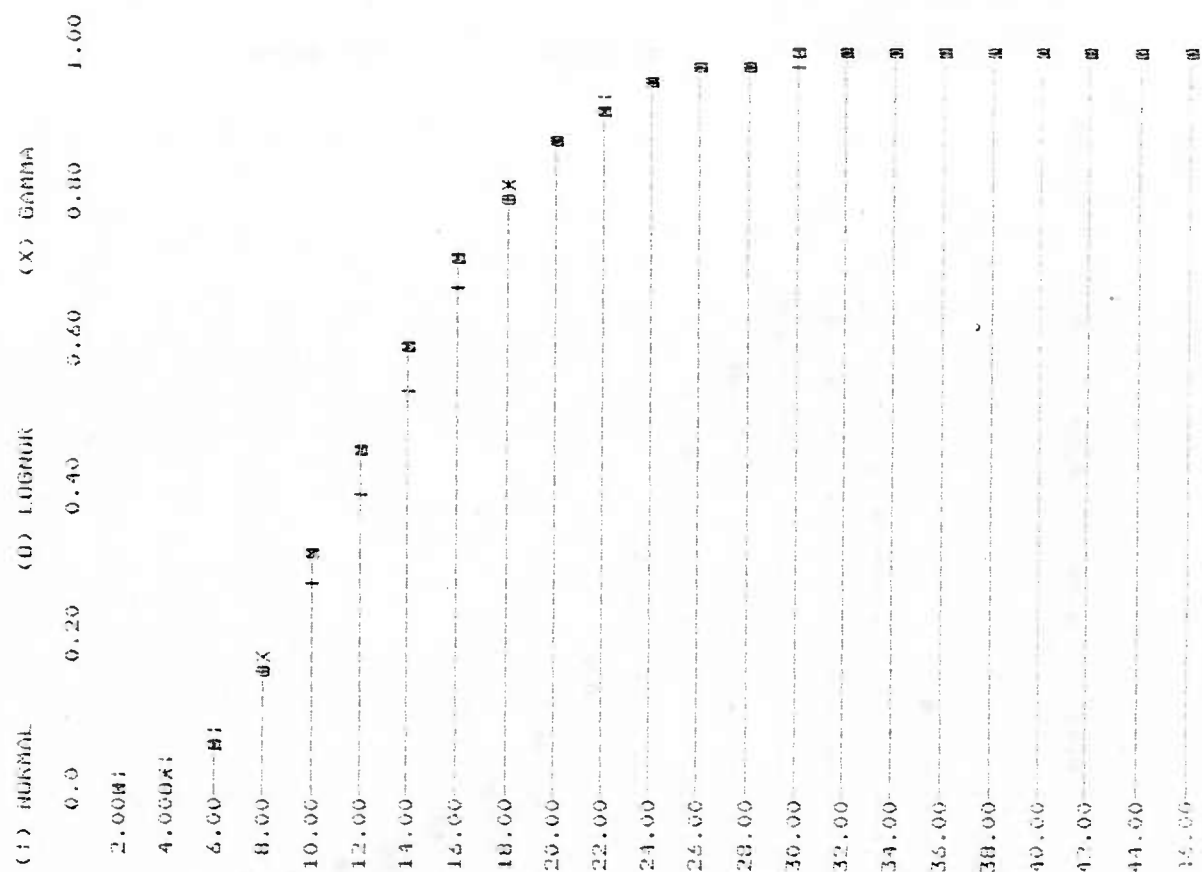


Figure 57a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.002	0.013	0.000	0.001
4.00	0.013	0.040	0.010	0.016
6.00	0.055	0.089	0.063	0.070
8.00	0.157	0.166	0.170	0.172
10.00	0.303	0.274	0.313	0.312
12.00	0.463	0.407	0.464	0.465
14.00	0.608	0.550	0.603	0.608
16.00	0.728	0.686	0.718	0.728
18.00	0.817	0.799	0.809	0.820
20.00	0.883	0.882	0.875	0.885
22.00	0.926	0.935	0.922	0.929
24.00	0.954	0.966	0.953	0.958
26.00	0.972	0.981	0.972	0.975
28.00	0.984	0.988	0.985	0.986
30.00	0.991	0.990	0.992	0.992
32.00	0.995	0.991	0.996	0.996
34.00	0.997	0.991	0.998	0.998
36.00	0.998	0.991	0.999	0.999
38.00	0.999	0.991	1.000	0.999
40.00	0.999	0.991	1.000	1.000
42.00	1.000	0.991	1.000	1.000
44.00	1.000	0.991	1.000	1.000
46.00	1.000	0.991	1.000	1.000

Figure 57b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.13	3.00	17	27.59	3956.23	151.13	92.7

() NORMAL

(O) LOGNOR

(X) GAMMA

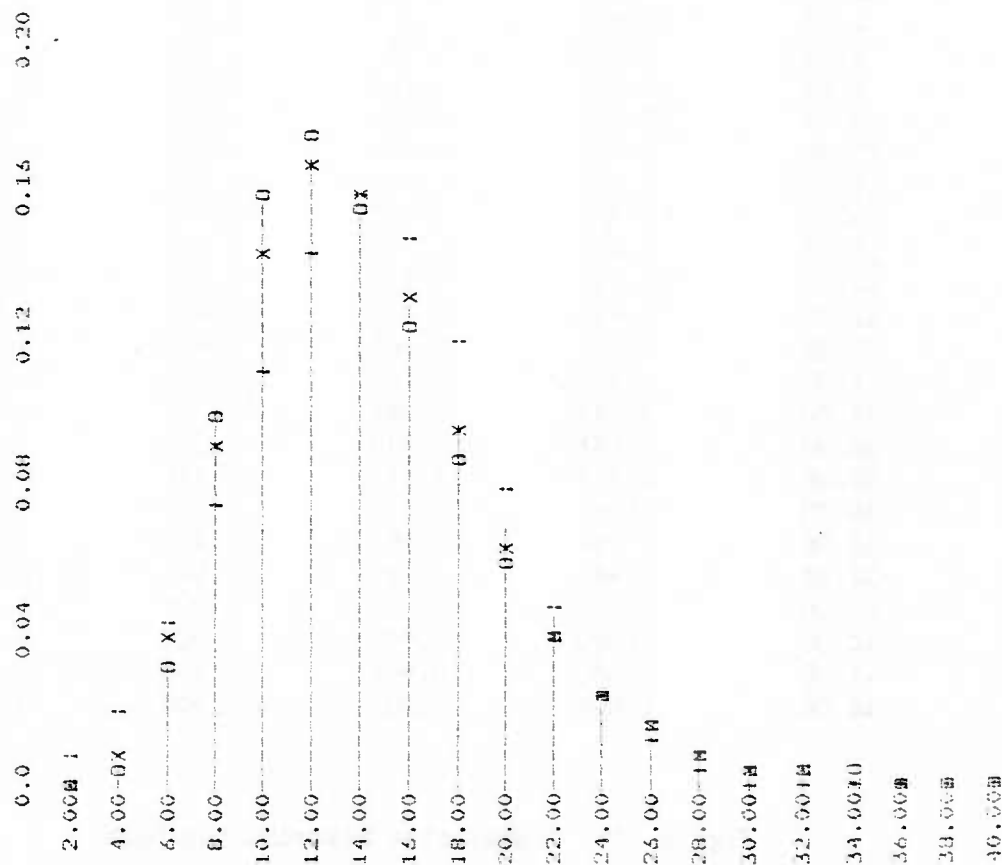


Figure 58. Histogram for Mountain

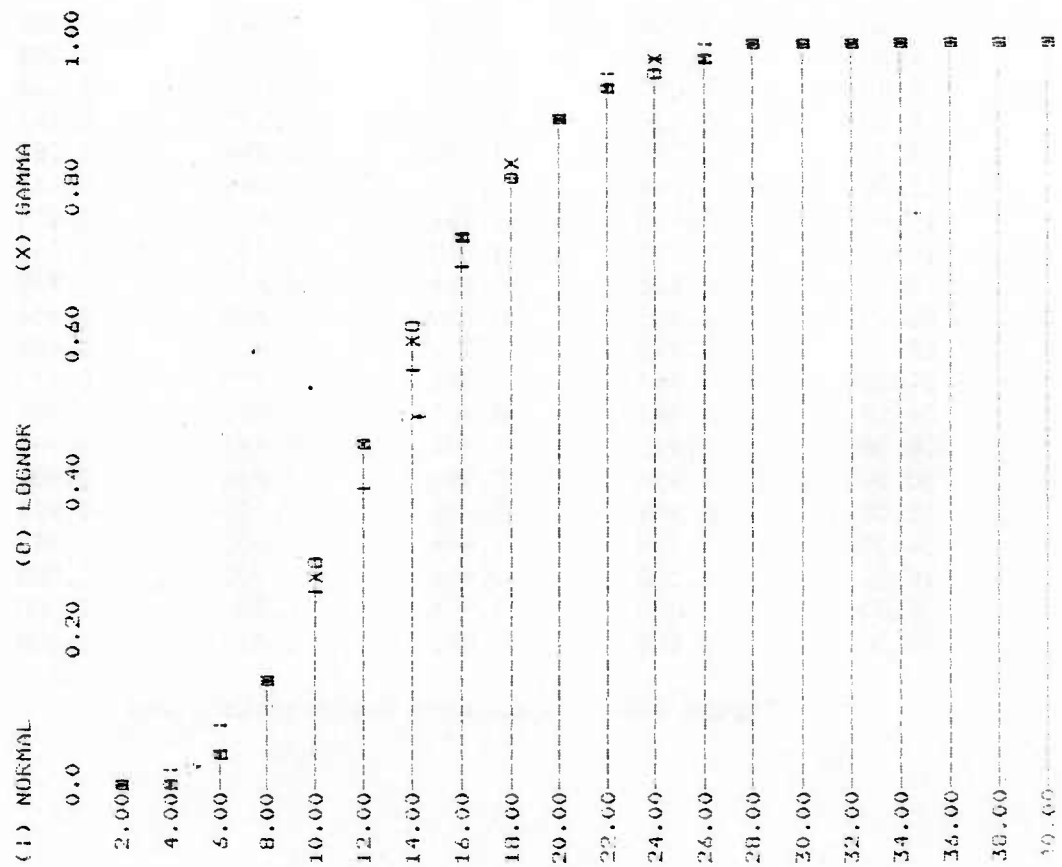


Figure 58a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.000	0.008	0.000	0.000
4.00	0.005	0.029	0.003	0.008
6.00	0.037	0.071	0.037	0.048
8.00	0.136	0.146	0.137	0.141
10.00	0.291	0.258	0.296	0.284
12.00	0.459	0.403	0.469	0.451
14.00	0.610	0.561	0.617	0.610
16.00	0.739	0.710	0.733	0.741
18.00	0.836	0.828	0.826	0.838
20.00	0.902	0.910	0.895	0.904
22.00	0.946	0.957	0.940	0.946
24.00	0.969	0.981	0.970	0.970
26.00	0.983	0.991	0.984	0.984
28.00	0.991	0.994	0.992	0.992
30.00	0.996	0.995	0.996	0.996
32.00	0.998	0.996	1.000	0.998
34.00	0.999	0.996	1.000	0.999
36.00	1.000	0.996	1.000	1.000
38.00	1.000	0.996	1.000	1.000
40.00	1.000	0.996	1.000	1.000

Figure 58b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.18	4.05	9	16.92	62.06	43.86	37.46

(.) NORMAL

(O) LOGNOR

(X) GAMMA

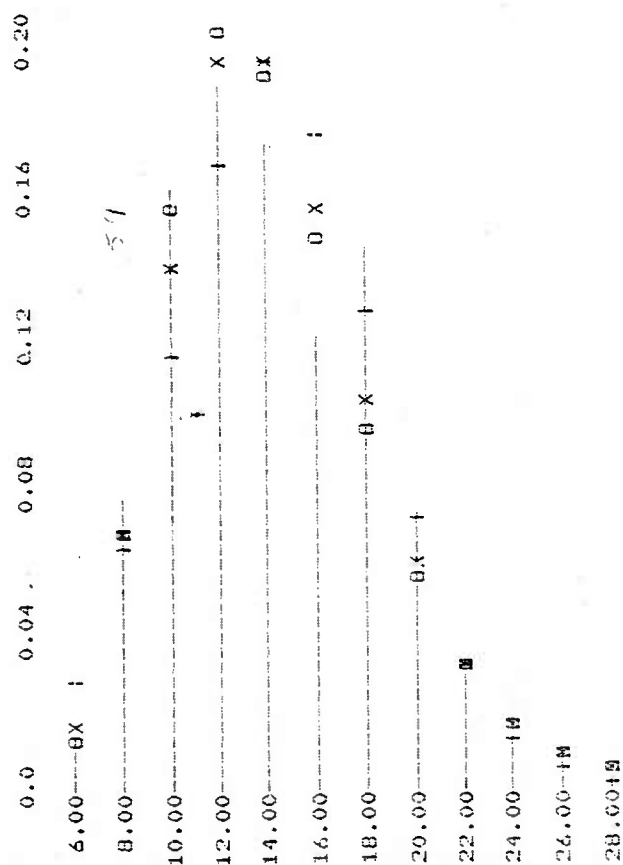


Figure 59. Histogram for Mountain

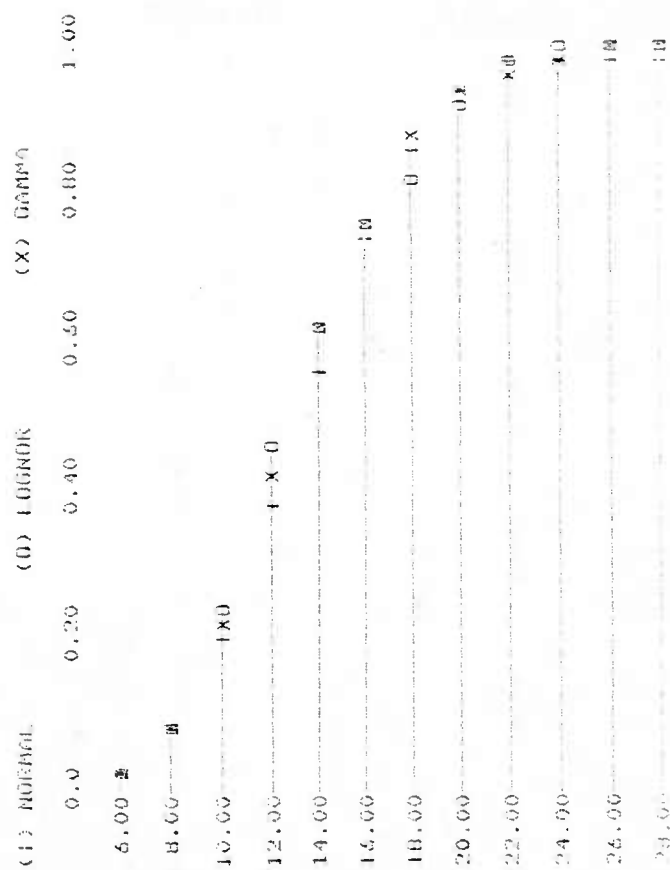


Figure 59a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.00	0.010	0.026	0.011	0.016
8.00	0.087	0.089	0.077	0.082
10.00	0.249	0.204	0.242	0.224
12.00	0.436	0.374	0.454	0.418
14.00	0.610	0.569	0.629	0.614
16.00	0.728	0.745	0.756	0.772
18.00	0.873	0.871	0.825	0.878
20.00	0.947	0.942	0.931	0.940
22.00	0.977	0.974	0.979	0.972
24.00	0.993	0.985	0.995	0.987
26.00	0.999	0.988	1.002	0.994
28.00	0.999	0.988	1.004	0.997

Figure 59b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.20	3.85	7	14.07	24.35	18.50	17.82

(.) NORMAL

(O) LOGNOR

(X) GAMMA

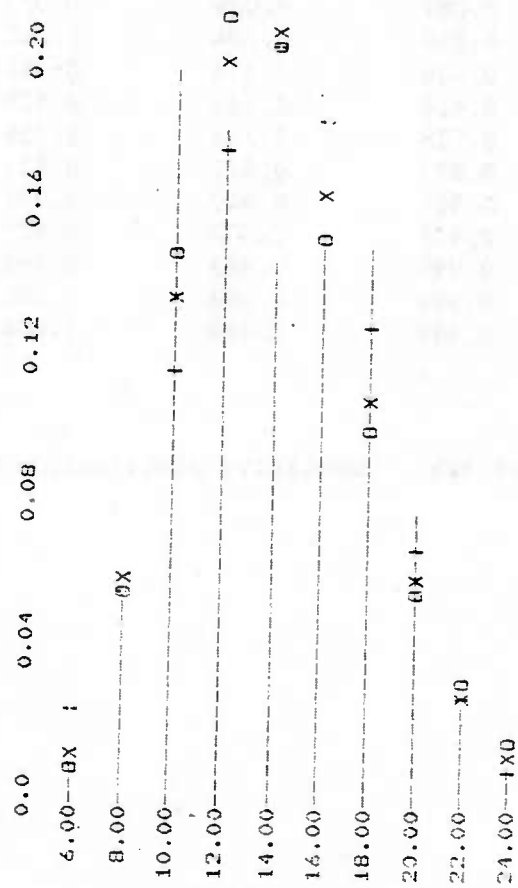


Figure 60. Histogram for Mountain

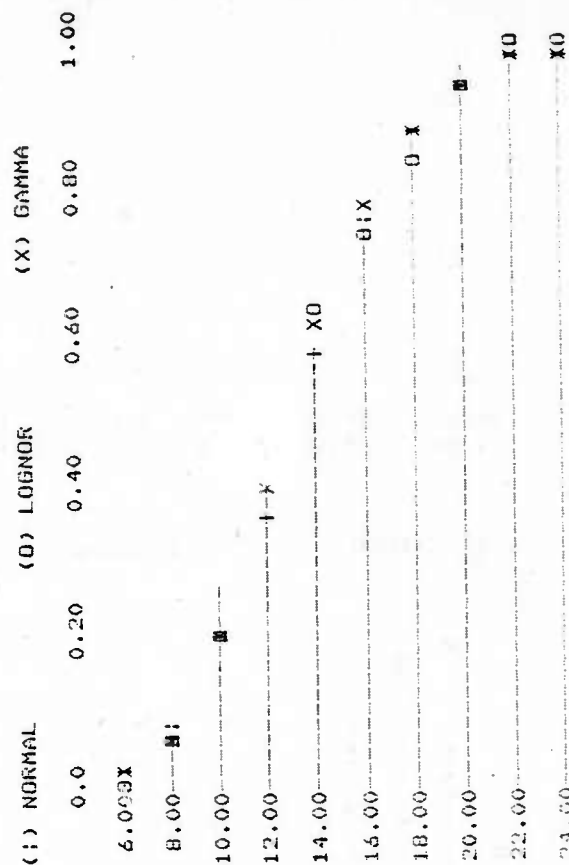


Figure 60a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.00	0.008	0.022	0.007	0.012
8.00	0.060	0.080	0.055	0.070
10.00	0.258	0.194	0.210	0.207
12.00	0.440	0.369	0.470	0.408
14.00	0.585	0.573	0.644	0.615
16.00	0.738	0.758	0.739	0.779
18.00	0.887	0.885	0.837	0.887
20.00	0.964	0.953	0.944	0.948
22.00	0.988	0.980	0.994	0.978
24.00	0.996	0.989	1.003	0.991

Figure 60b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.30	5.98	23	35.17*****	14702.70	3607.39	

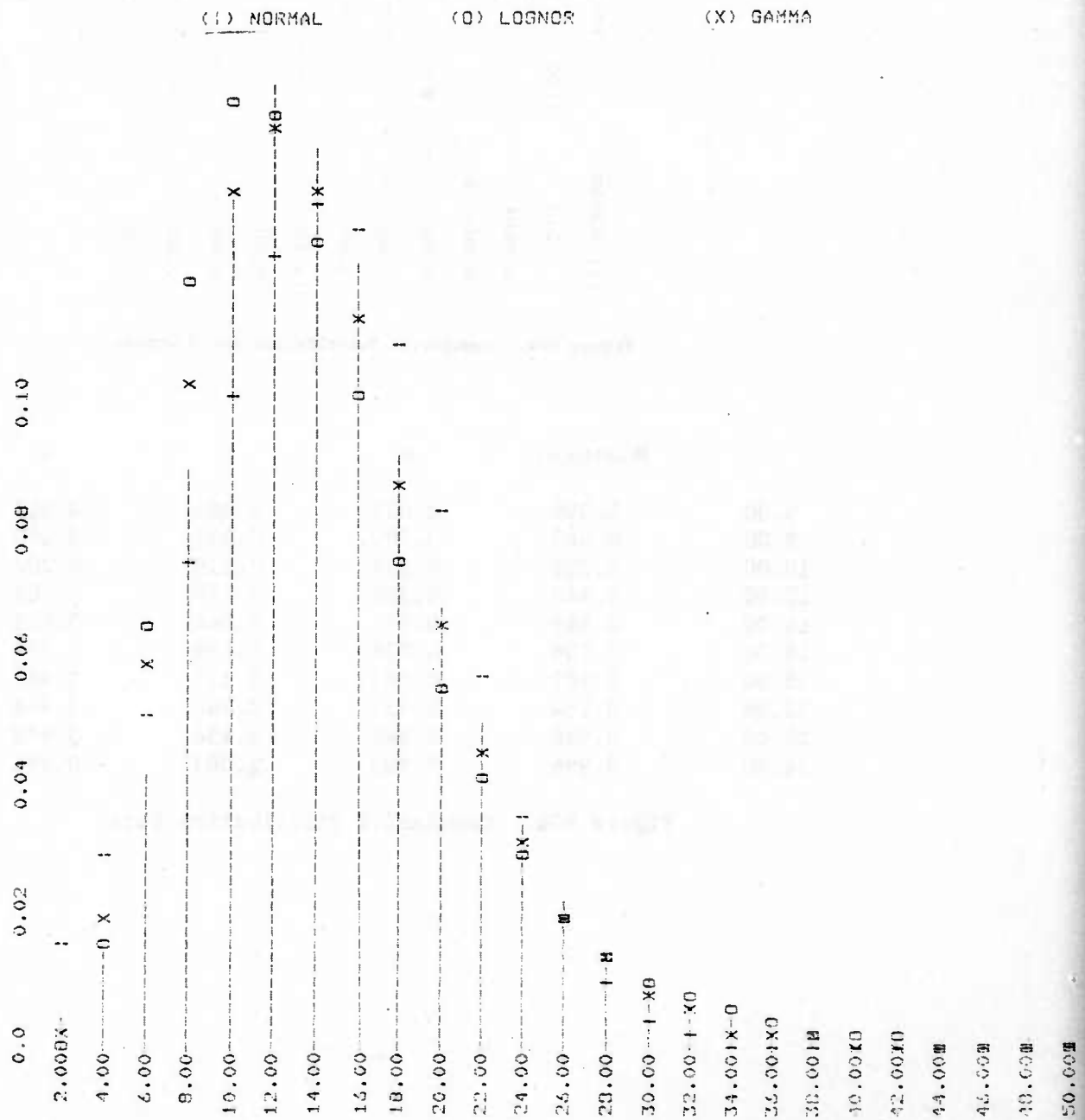


Figure 61. Histogram for Mountain

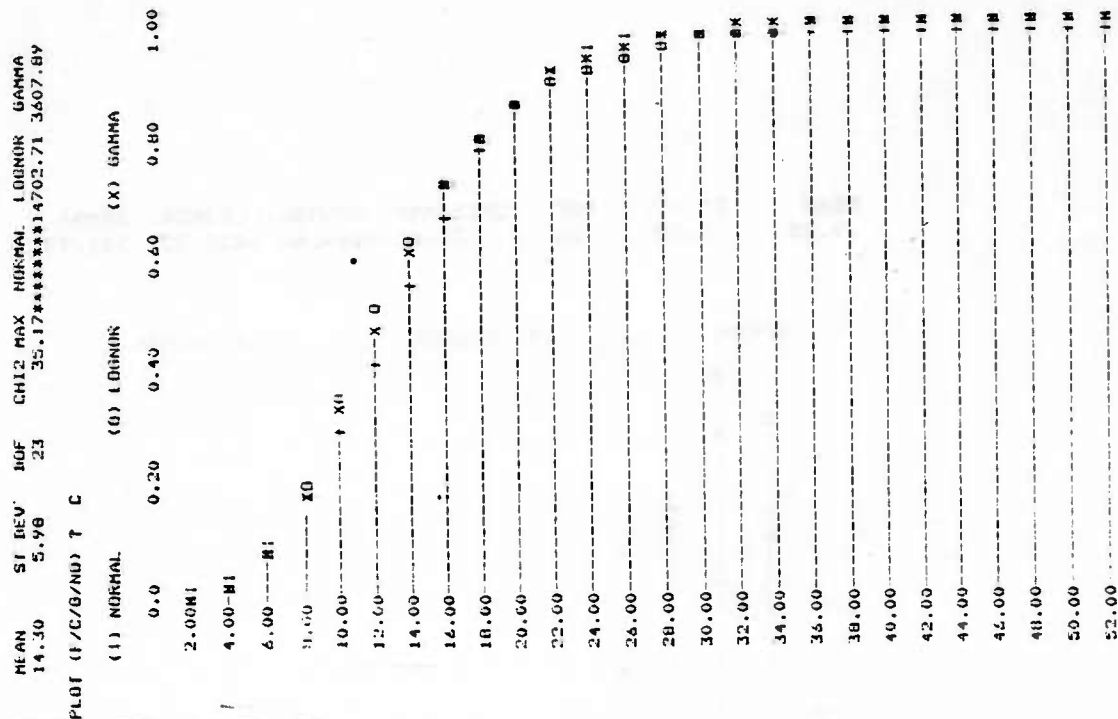


Figure 61a. Cumulative Distribution for Mountain

	Mountain	N	L	G
)	2.000	0.004	0.016	0.002
)	4.000	0.017	0.047	0.023
)	6.000	0.052	0.098	0.083
)	8.000	0.149	0.174	0.188
)	10.000	0.281	0.277	0.323
)	12.000	0.432	0.401	0.466
)	14.000	0.573	0.533	0.600
)	16.000	0.694	0.661	0.713
)	18.000	0.787	0.771	0.802
)	20.000	0.854	0.856	0.868
)	22.000	0.905	0.914	0.914
)	24.000	0.939	0.950	0.946
)	26.000	0.961	0.970	0.966
)	28.000	0.975	0.980	0.980
)	30.000	0.985	0.984	0.988
)	32.000	0.991	0.986	0.993
)	34.000	0.995	0.987	0.996
)	36.000	0.997	0.987	0.998
)	38.000	0.998	0.987	0.999
)	40.000	0.999	0.987	0.999
)	42.000	1.000	0.987	1.000
)	44.000	1.000	0.987	1.000
)	46.000	1.000	0.987	1.000
)	48.000	1.000	0.987	1.000
)	50.000	1.000	0.987	1.000
)	52.000	1.000	0.987	1.000

Figure 61b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.25	5.59	20	31.4144	304.66	1837.22	331.93

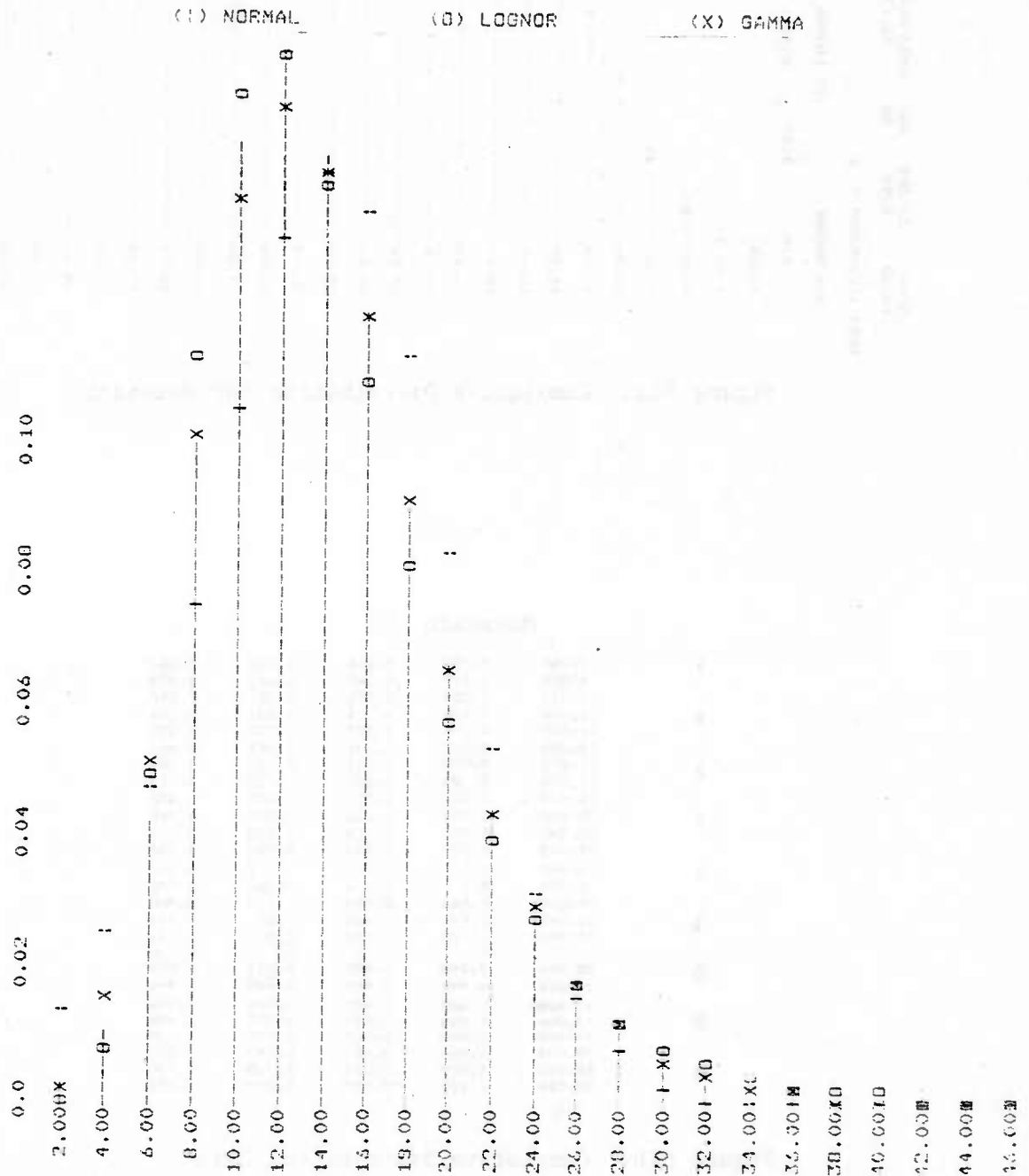


Figure 62. Histogram for Mountain

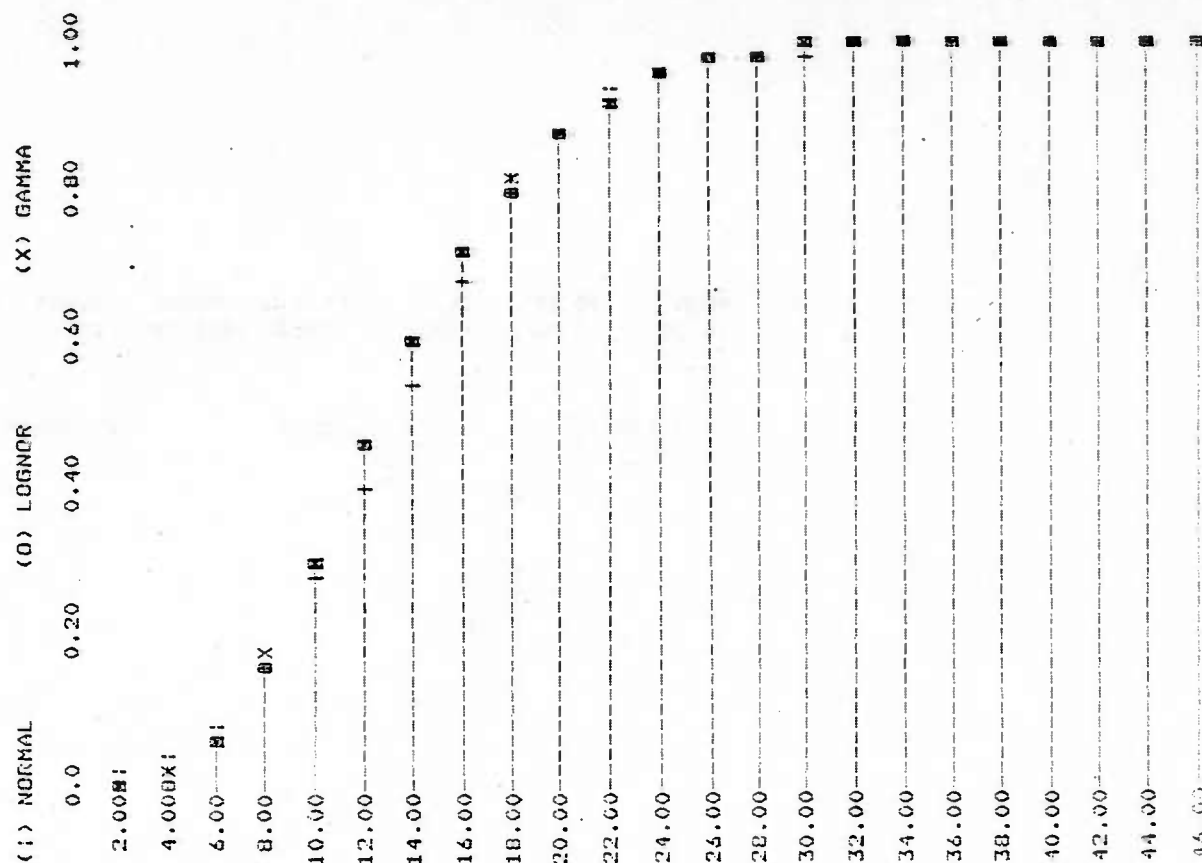


Figure 62a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.002	0.013	0.000	0.001
4.00	0.013	0.040	0.009	0.016
6.00	0.054	0.089	0.062	0.069
8.00	0.155	0.165	0.167	0.171
10.00	0.300	0.272	0.310	0.309
12.00	0.460	0.403	0.460	0.461
14.00	0.604	0.545	0.599	0.604
16.00	0.724	0.680	0.715	0.724
18.00	0.814	0.794	0.806	0.816
20.00	0.880	0.878	0.872	0.882
22.00	0.923	0.932	0.920	0.927
24.00	0.952	0.964	0.951	0.956
26.00	0.971	0.980	0.971	0.974
28.00	0.983	0.987	0.983	0.985
30.00	0.990	0.990	0.991	0.992
32.00	0.994	0.991	0.996	0.995
34.00	0.997	0.991	0.998	0.998
36.00	0.998	0.991	0.999	0.999
38.00	0.999	0.991	1.000	0.999
40.00	0.999	0.991	1.000	1.000
42.00	1.000	0.991	1.000	1.000
44.00	1.000	0.991	1.000	1.000
46.00	1.000	0.991	1.000	1.000

Figure 62b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.25	5.04	18	28.87	4815.33	145.17	93.03

(1) NORMAL

(0) LOGNOR

(X) GAMMA

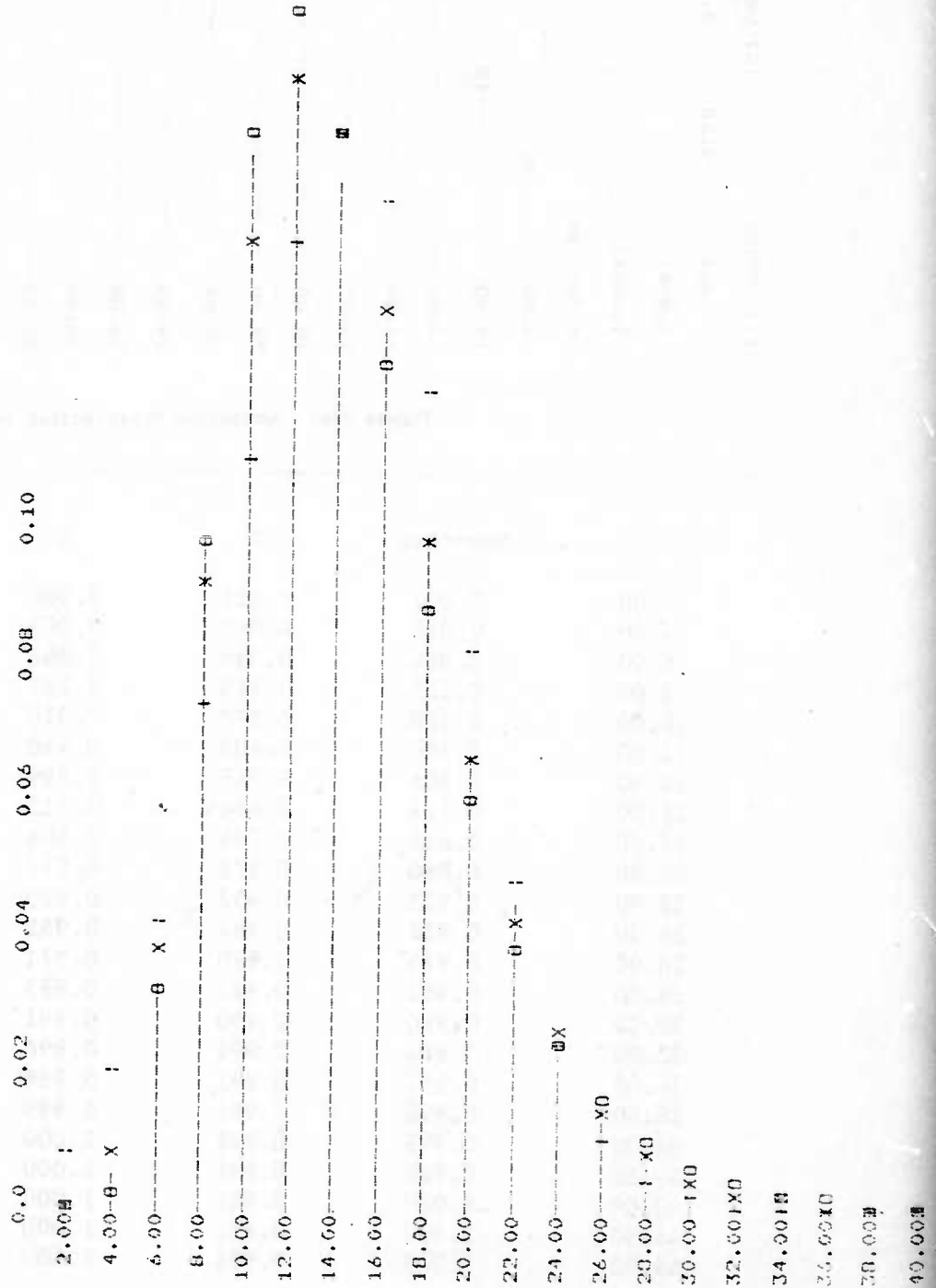


Figure 63. Histogram for Mountain

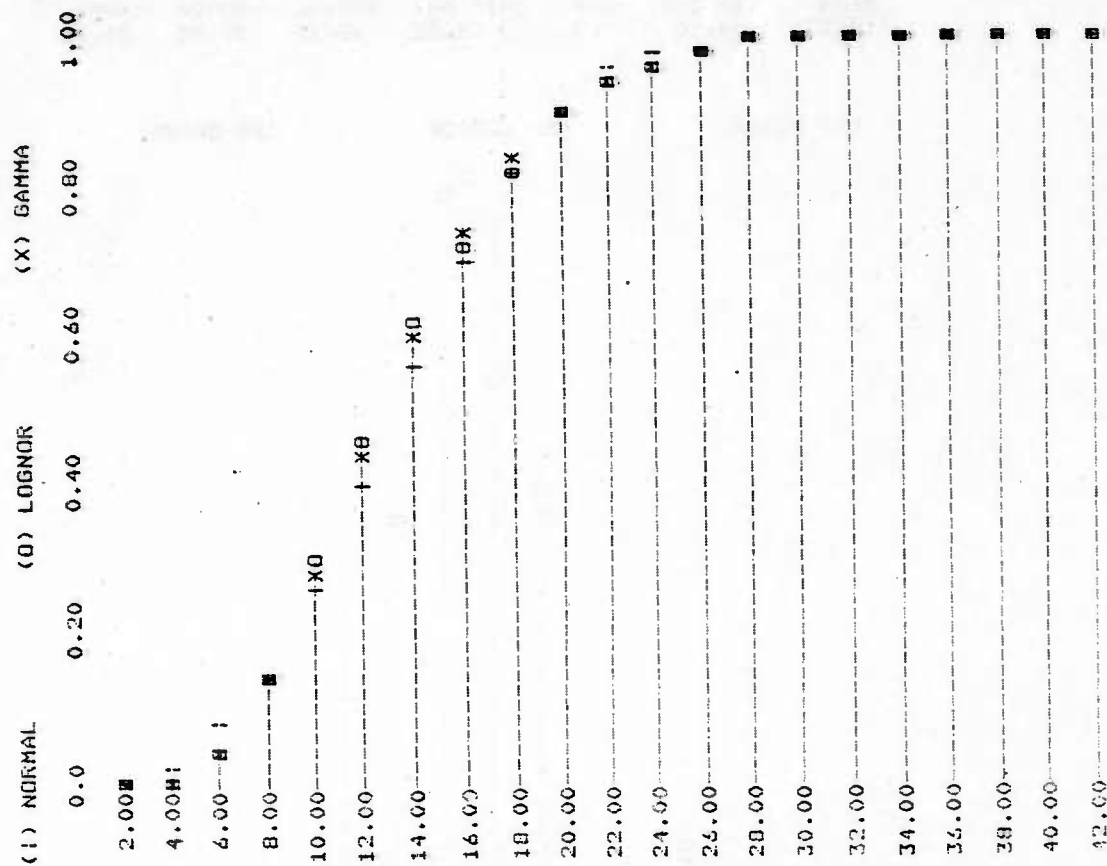


Figure 63a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.00	0.000	0.009	0.000	0.000
4.00	0.004	0.029	0.003	0.008
6.00	0.036	0.071	0.036	0.047
8.00	0.134	0.145	0.135	0.139
10.00	0.288	0.256	0.292	0.281
12.00	0.455	0.398	0.464	0.446
14.00	0.606	0.555	0.613	0.604
16.00	0.735	0.703	0.729	0.736
18.00	0.832	0.823	0.823	0.834
20.00	0.898	0.906	0.892	0.901
22.00	0.943	0.954	0.937	0.943
24.00	0.967	0.979	0.967	0.969
26.00	0.981	0.990	0.982	0.984
28.00	0.990	0.994	0.991	0.992
30.00	0.996	0.995	0.996	0.996
32.00	0.998	0.996	0.999	0.998
34.00	0.999	0.996	1.000	0.999
36.00	1.000	0.996	1.000	1.000
38.00	1.000	0.996	1.000	1.000
40.00	1.000	0.996	1.000	1.000
42.00	1.000	0.996	1.000	1.000

Figure 63b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.27	4.10	9	16.92	63.65	39.95	34.73

(.) NORMAL

(O) LOGNOR

(X) GAMMA

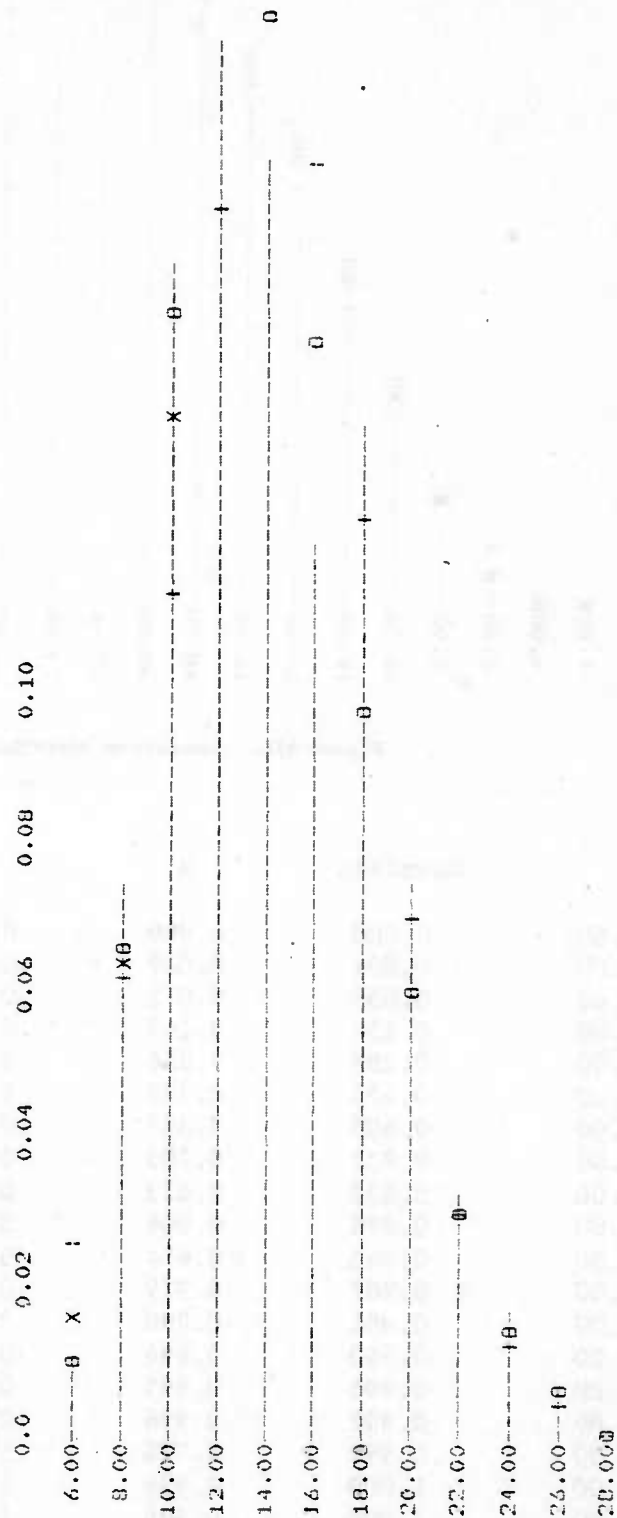


Figure 64. Histogram for Mountain

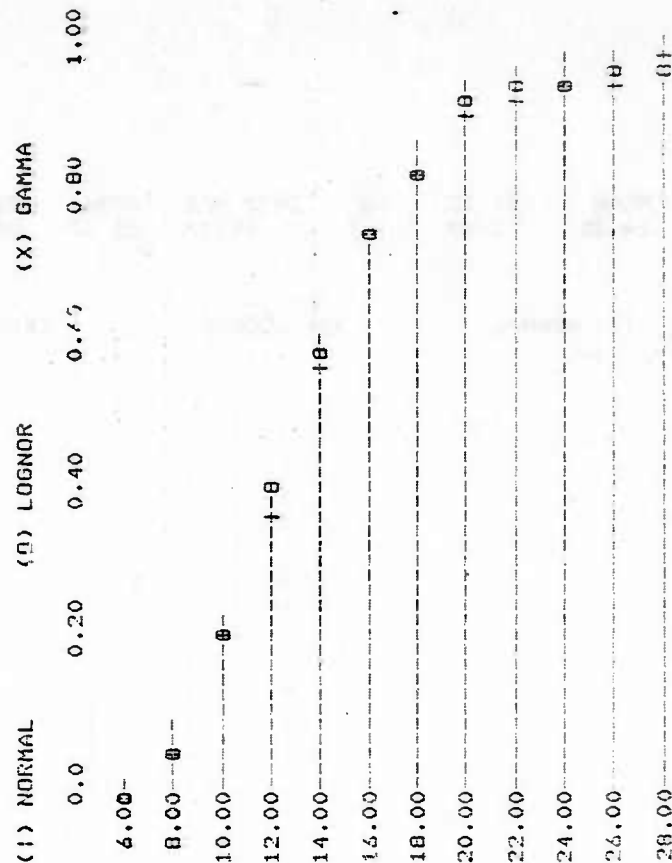


Figure 64a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.00	0.010	0.026	0.011	0.010
8.00	0.084	0.087	0.075	0.081
10.00	0.242	0.201	0.236	0.219
12.00	0.431	0.366	0.445	0.410
14.00	0.603	0.559	0.623	0.605
16.00	0.723	0.735	0.751	0.764
18.00	0.864	0.864	0.821	0.872
20.00	0.941	0.938	0.924	0.936
22.00	0.973	0.972	0.975	0.970
24.00	0.992	0.984	0.992	0.986
26.00	0.999	0.987	1.002	0.994
28.00	0.999	0.988	1.004	0.997

Figure 64b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.32	3.89	7	14.07	22.67	14.68	14.59

(.) NORMAL

(O) LOGNOR

(X) GAMMA

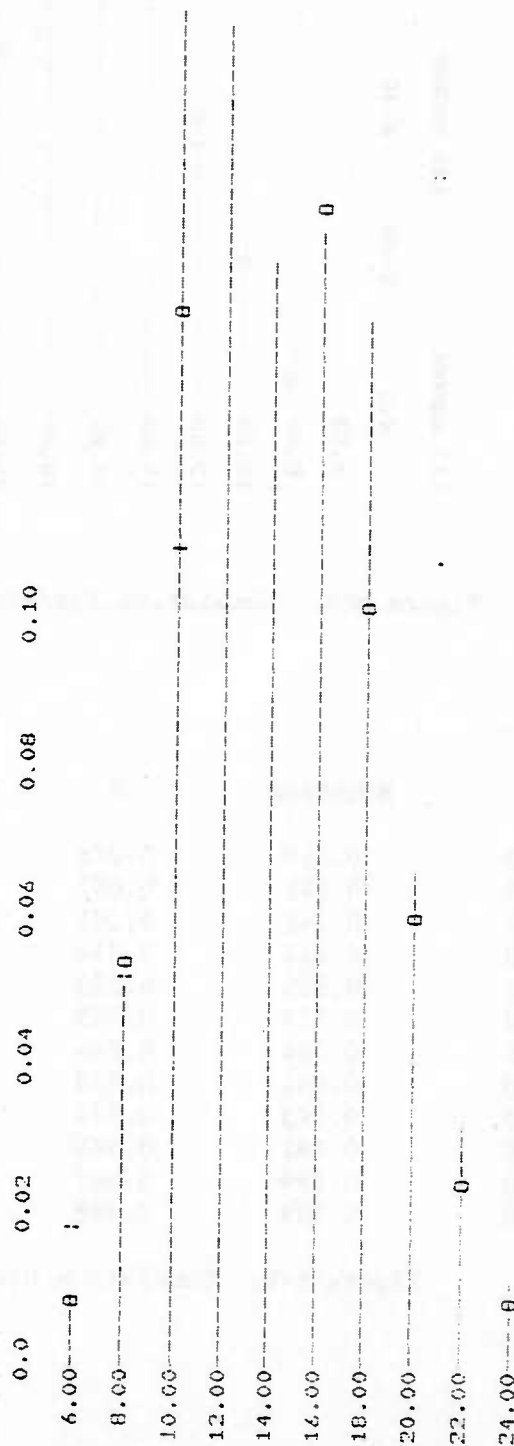


Figure 65. Histogram for Mountain

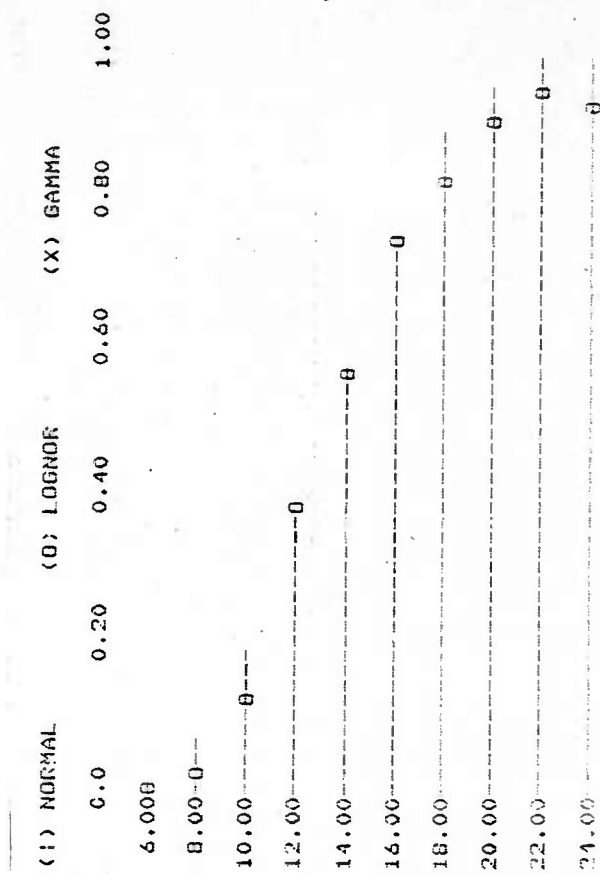


Figure 65a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.00	0.008	0.022	0.007	0.011
8.00	0.059	0.077	0.062	0.067
10.00	0.246	0.188	0.204	0.200
12.00	0.430	0.359	0.454	0.397
14.00	0.578	0.561	0.633	0.603
16.00	0.730	0.746	0.734	0.769
18.00	0.879	0.877	0.832	0.880
20.00	0.949	0.949	0.938	0.944
22.00	0.988	0.979	0.981	0.975
24.00	1.000	0.989	1.005	0.990

Figure 65b. Cumulative Distribution Data

MEAN ST DEV DOF CH12 MAX NORMAL LOGNOS GAMMA

41.42 14.12 42 43.722923.55 48.96 2729.81 1.2

(1) NORM (2) LOGN (3) GAMMA

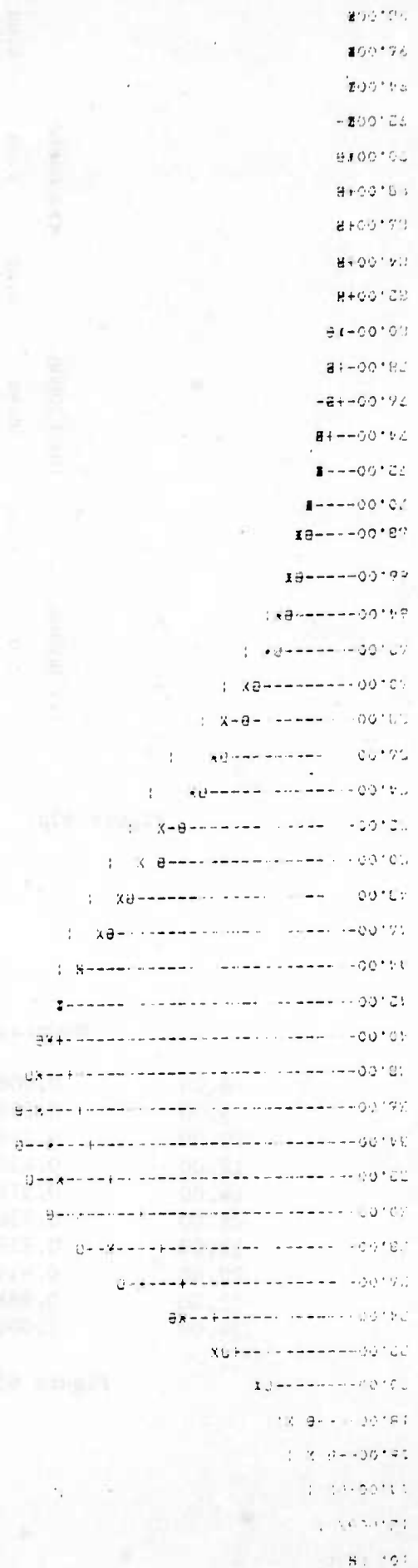


Figure 66. Histogram for Pack Ice

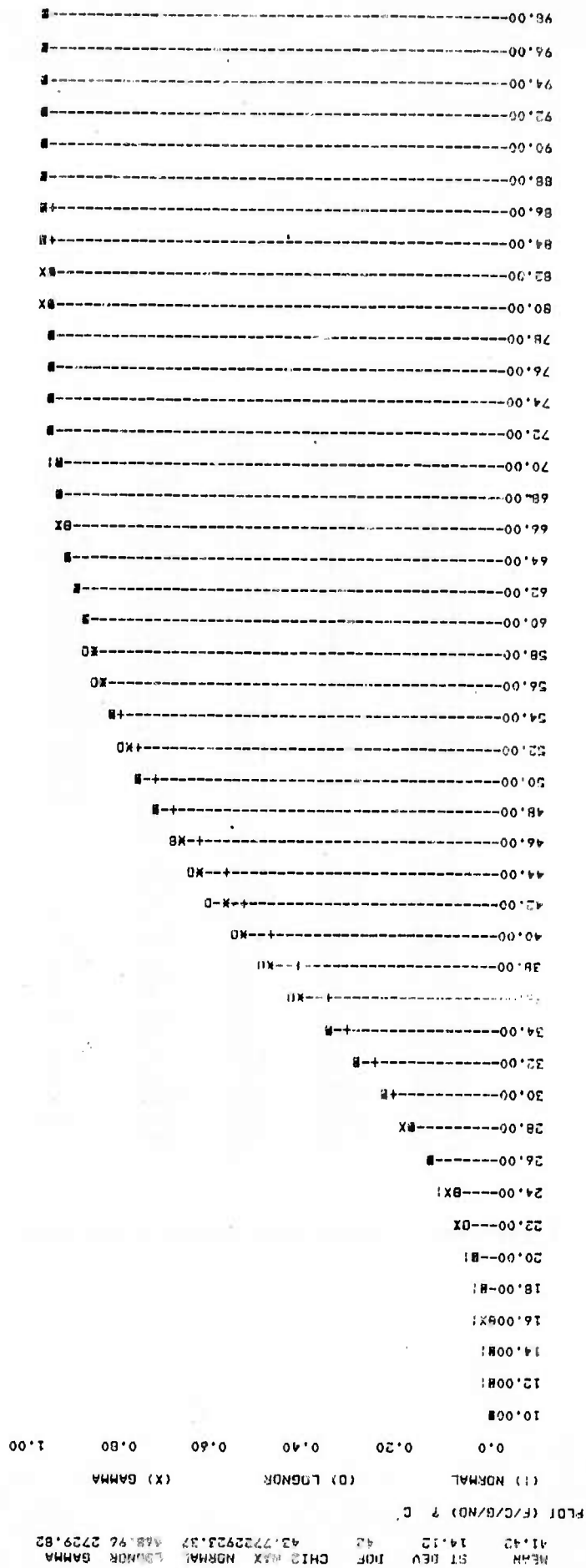


Figure 66a. Cumulative Distribution for Pack Ice

	ICE	N	L	G
10.000	0.000	0.005	0.000	0.001
12.000	0.000	0.011	0.000	0.003
14.000	0.001	0.020	0.002	0.007
16.000	0.004	0.031	0.006	0.015
18.000	0.012	0.045	0.015	0.028
20.000	0.025	0.063	0.031	0.047
22.000	0.048	0.085	0.055	0.073
24.000	0.081	0.112	0.089	0.106
26.000	0.123	0.143	0.132	0.146
28.000	0.172	0.179	0.184	0.192
30.000	0.230	0.219	0.241	0.243
32.000	0.291	0.265	0.303	0.299
34.000	0.355	0.314	0.368	0.357
36.000	0.420	0.366	0.432	0.417
38.000	0.480	0.421	0.494	0.476
40.000	0.540	0.477	0.554	0.533
42.000	0.594	0.534	0.610	0.588
44.000	0.646	0.589	0.661	0.640
46.000	0.692	0.643	0.707	0.688
48.000	0.735	0.693	0.749	0.732
50.000	0.772	0.740	0.785	0.771
52.000	0.805	0.783	0.817	0.806
54.000	0.835	0.821	0.845	0.837
56.000	0.860	0.854	0.869	0.864
58.000	0.882	0.883	0.890	0.887
60.000	0.901	0.906	0.908	0.907
62.000	0.918	0.926	0.923	0.921
64.000	0.931	0.942	0.935	0.938
66.000	0.943	0.954	0.946	0.949
68.000	0.953	0.964	0.955	0.959
70.000	0.961	0.971	0.963	0.967
72.000	0.968	0.976	0.969	0.974
74.000	0.974	0.980	0.974	0.979
76.000	0.979	0.983	0.979	0.983
78.000	0.982	0.985	0.982	0.987
80.000	0.986	0.987	0.985	0.990
82.000	0.988	0.988	0.988	0.992
84.000	0.990	0.988	0.990	0.994
86.000	0.992	0.989	0.992	0.995
88.000	0.994	0.989	0.993	0.996
90.000	0.995	0.989	0.994	0.997
92.000	0.996	0.989	0.995	0.997
94.000	0.997	0.989	0.996	0.998
96.000	0.998	0.989	0.997	0.998
98.000	0.998	0.989	0.997	0.999

Figure 66b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.30	7.06	19	30.14	21.23	36.41	16.32

(1) NORMAL

(0) LOGNOR

(X) GAMMA

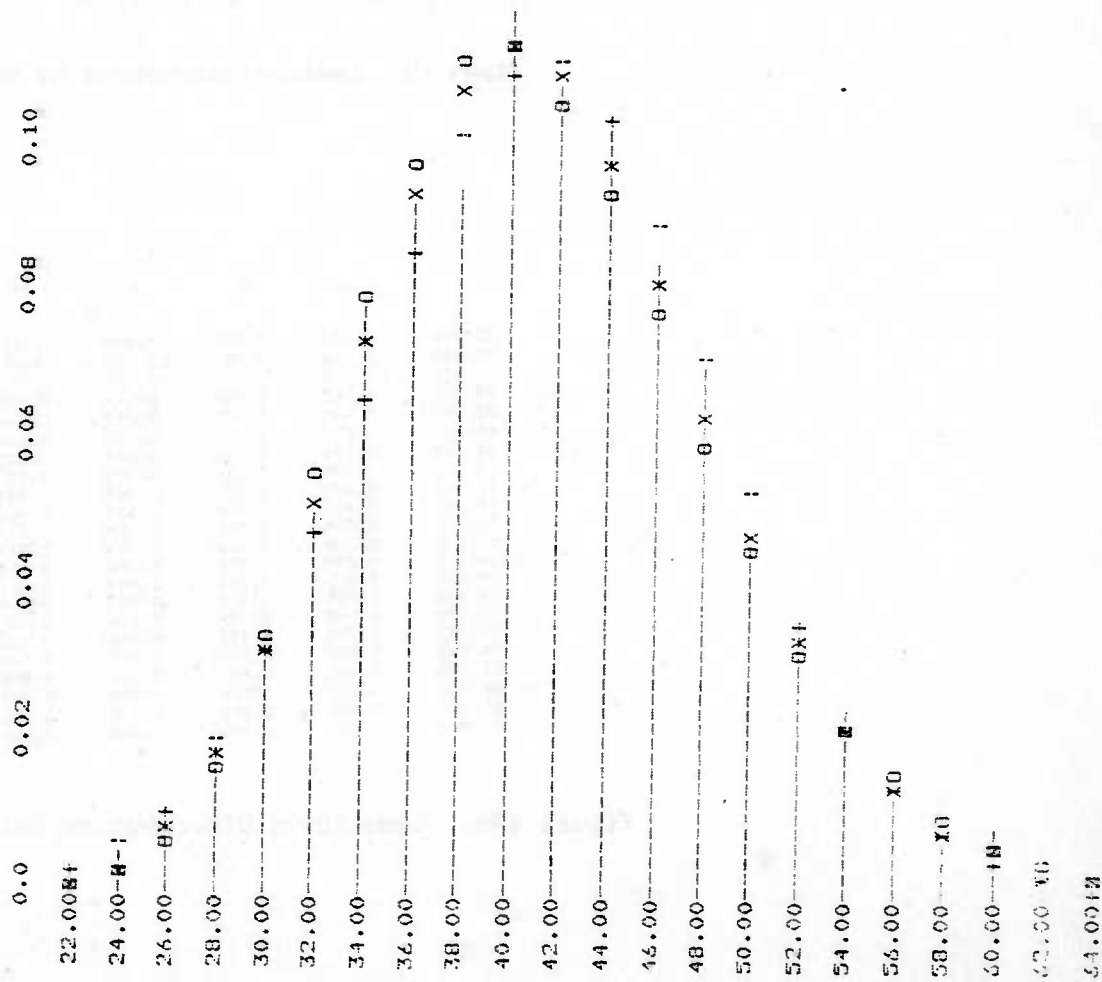


Figure 67. Histogram for Pack Ice

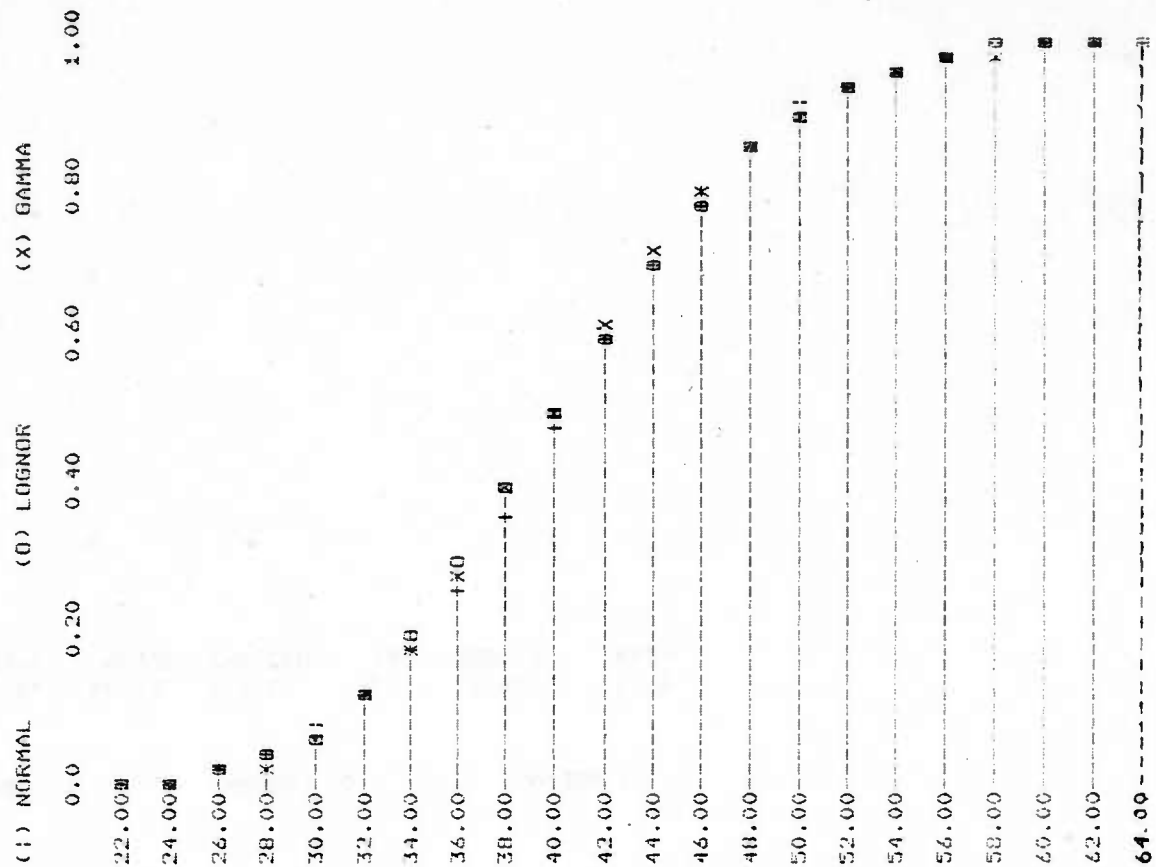


Figure 67a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
22.000	0.003	0.003	0.000	0.001
24.000	0.006	0.003	0.003	0.004
26.000	0.016	0.010	0.005	0.012
28.000	0.034	0.039	0.024	0.027
30.000	0.065	0.070	0.059	0.061
32.000	0.115	0.110	0.115	0.113
34.000	0.193	0.184	0.174	0.198
36.000	0.285	0.269	0.293	0.283
38.000	0.377	0.370	0.404	0.391
40.000	0.477	0.481	0.517	0.505
42.000	0.604	0.593	0.624	0.615
44.000	0.708	0.698	0.718	0.711
46.000	0.792	0.788	0.796	0.796
48.000	0.862	0.860	0.857	0.861
50.000	0.908	0.913	0.902	0.909
52.000	0.945	0.949	0.935	0.942
54.000	0.970	0.972	0.958	0.965
56.000	0.982	0.985	0.973	0.979
58.000	0.988	0.992	0.983	0.988
60.000	0.993	0.995	0.990	0.993
62.000	0.997	0.997	0.994	0.995
64.000	1.000	0.998	0.996	0.998

Figure 67b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
40.29	5.38	8	15.51	8.04	10.10	9.66

(1) NORMAL

(0) LOGNOR

(X) GAMMA

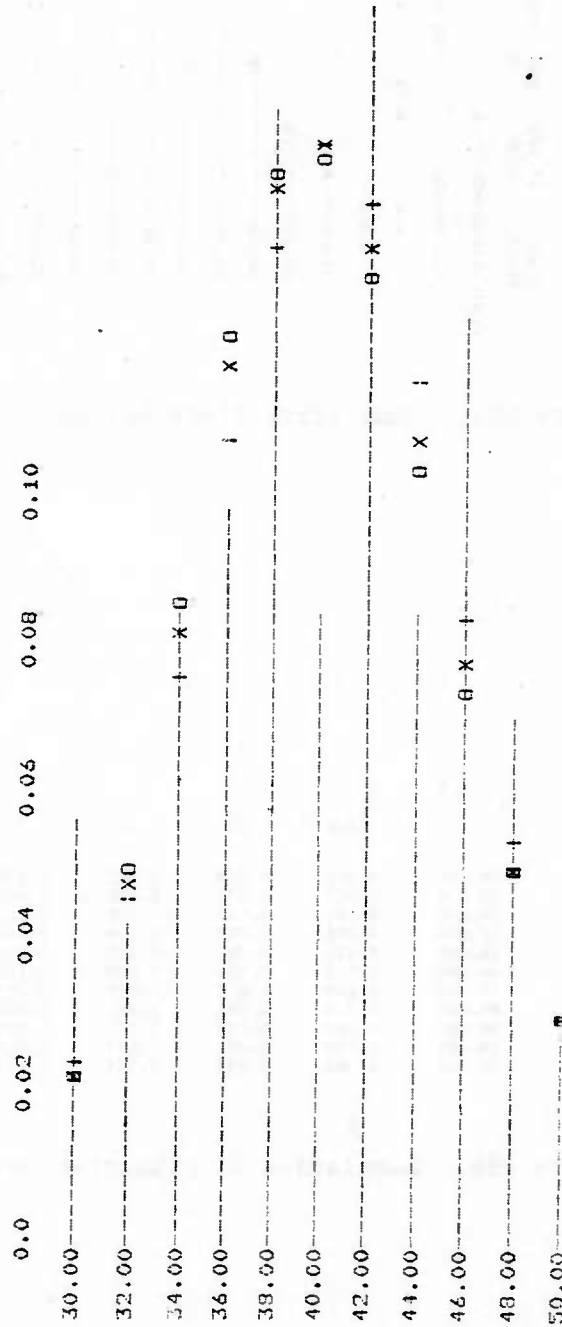


Figure 68. Histogram for Pack Ice

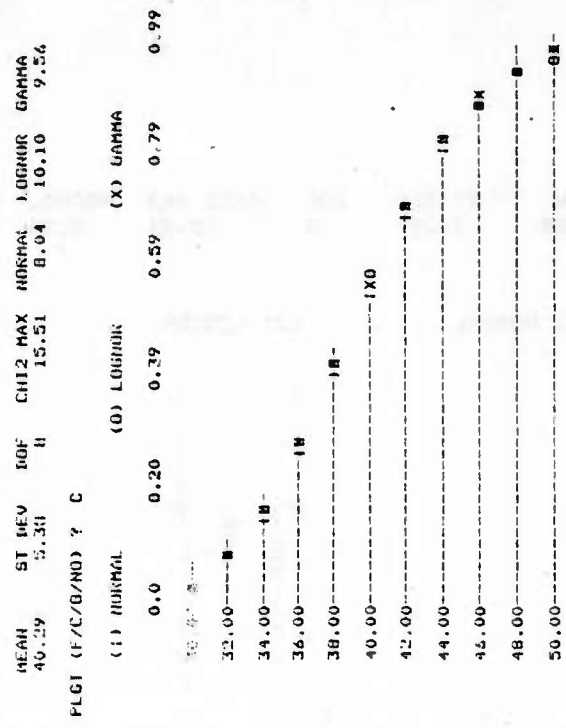


Figure 68a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
30.000	0.056	0.024	0.022	0.022
32.000	0.097	0.070	0.072	0.070
34.000	0.181	0.145	0.158	0.151
36.000	0.278	0.253	0.279	0.269
38.000	0.431	0.387	0.422	0.411
40.000	0.514	0.534	0.568	0.559
42.000	0.681	0.675	0.697	0.693
44.000	0.744	0.771	0.800	0.801
46.000	0.889	0.876	0.875	0.879
48.000	0.958	0.929	0.924	0.929
50.000	0.986	0.959	0.954	0.959

Figure 68b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
10.70	13.47	30	43.77	36.06	29.28	26.98

(X) GAMMA

(O) LOGNOR

(I) NORMAL

0.0 0.02 0.04 0.06 0.08 0.10

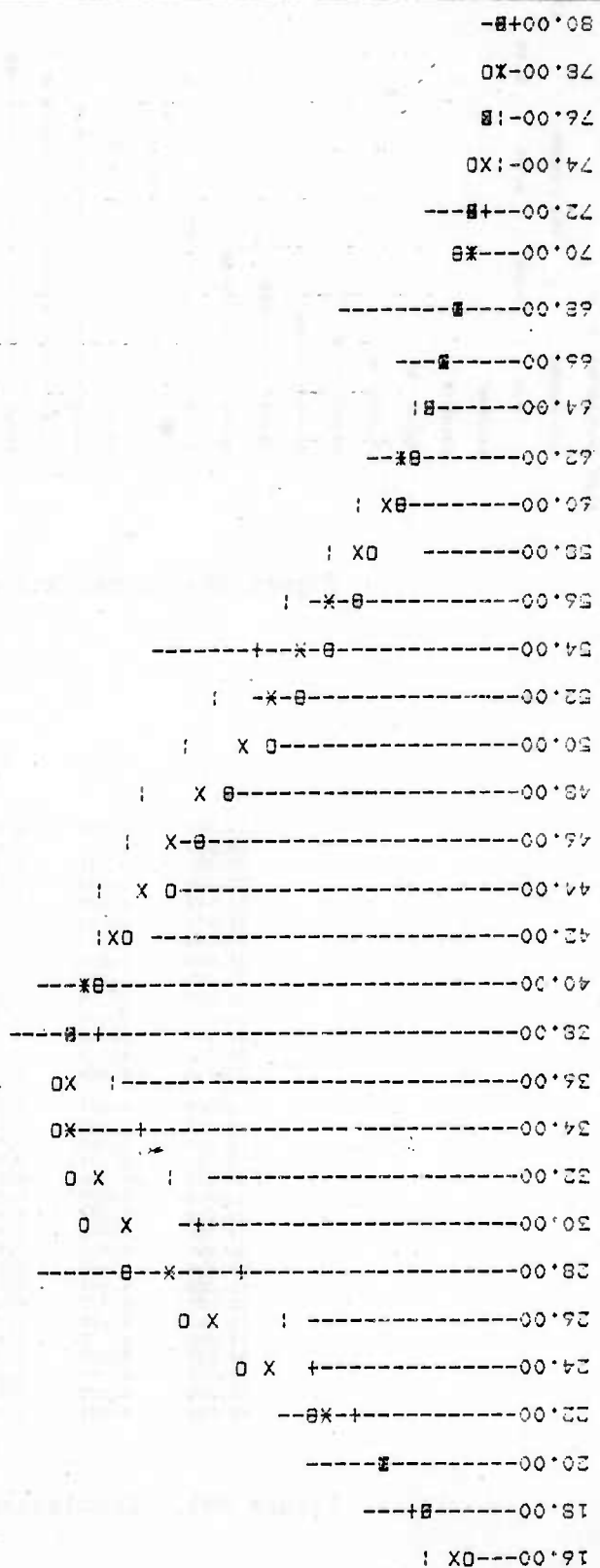


Figure 69. Histogram for Pack Ice

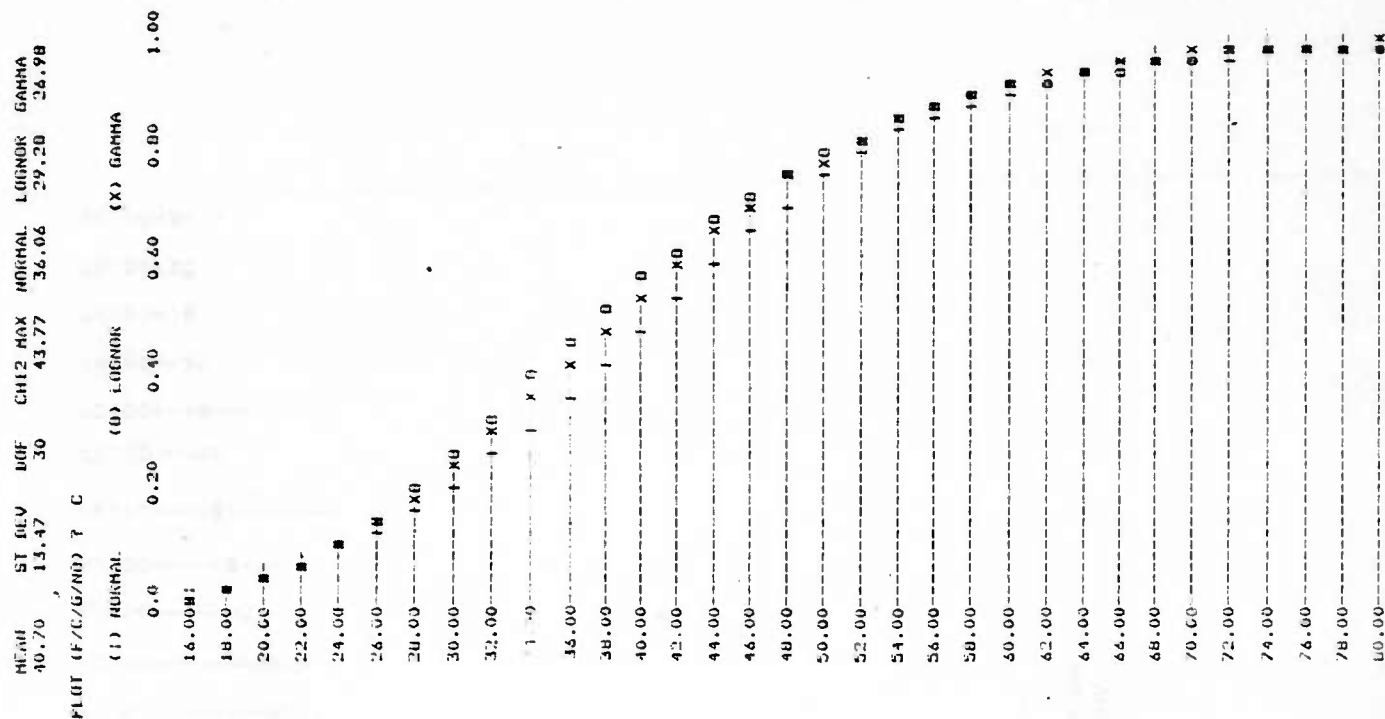


Figure 69a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
16.000	0.004	0.011	0.006	0.008
18.000	0.023	0.025	0.017	0.020
20.000	0.051	0.044	0.036	0.039
22.000	0.082	0.066	0.064	0.065
24.000	0.109	0.094	0.101	0.099
26.000	0.137	0.126	0.140	0.141
28.000	0.203	0.164	0.202	0.199
30.000	0.250	0.207	0.261	0.263
32.000	0.293	0.256	0.304	0.302
34.000	0.335	0.308	0.349	0.363
36.000	0.410	0.364	0.452	0.425
38.000	0.480	0.422	0.513	0.486
40.000	0.547	0.481	0.571	0.546
42.000	0.598	0.540	0.625	0.603
44.000	0.651	0.602	0.678	0.654
46.000	0.691	0.652	0.718	0.704
48.000	0.730	0.703	0.757	0.747
50.000	0.762	0.750	0.792	0.786
52.000	0.797	0.791	0.822	0.820
54.000	0.848	0.828	0.849	0.850
56.000	0.875	0.859	0.872	0.875
58.000	0.887	0.885	0.891	0.897
60.000	0.902	0.906	0.908	0.915
62.000	0.922	0.923	0.922	0.930
64.000	0.934	0.936	0.934	0.943
66.000	0.949	0.946	0.944	0.953
68.000	0.973	0.954	0.953	0.961
70.000	0.980	0.960	0.960	0.968
72.000	0.992	0.964	0.966	0.974
74.000	0.992	0.966	0.971	0.978
76.000	0.992	0.968	0.976	0.981
78.000	0.992	0.970	0.979	0.984
80.000	0.996	0.970	0.982	0.986

Figure 69b. Cumulative Distribution Data

MEAN 38.08 ST DEV 13.78 DOF 37 CHI2 MAX 43.77 NORMAL 316.33 LOGNOR 46.67 GAMMA 66.73

(1) NORMAL

(0) LOGNOR

(X) GAMMA

0.0 0.02 0.04 0.06 0.08 0.10

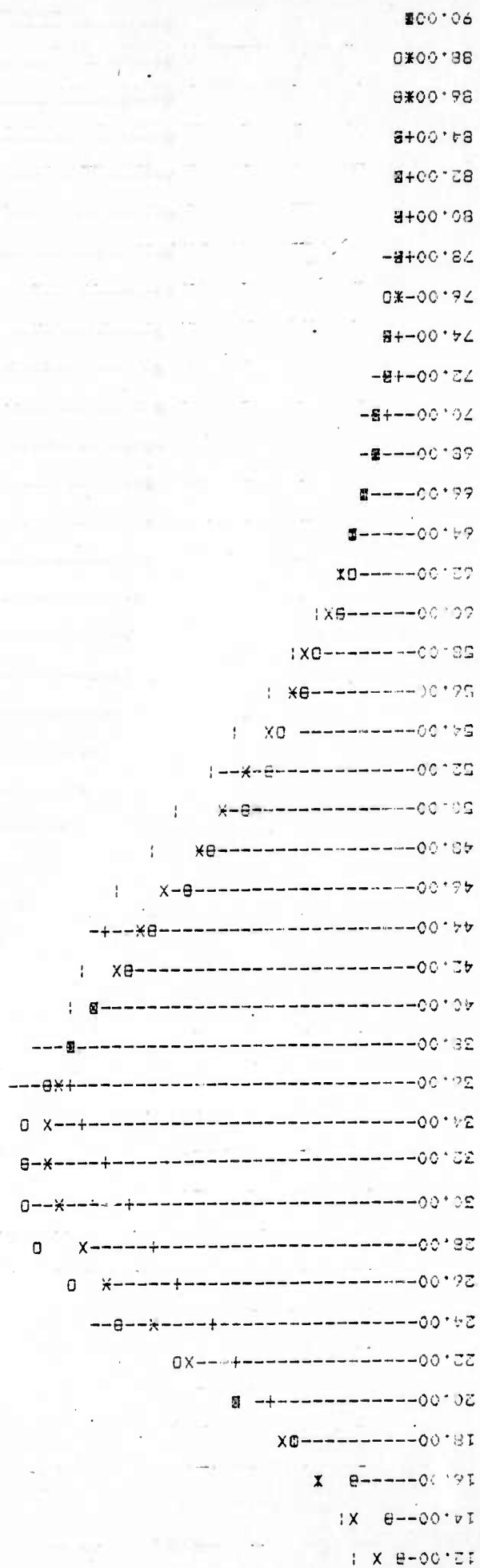
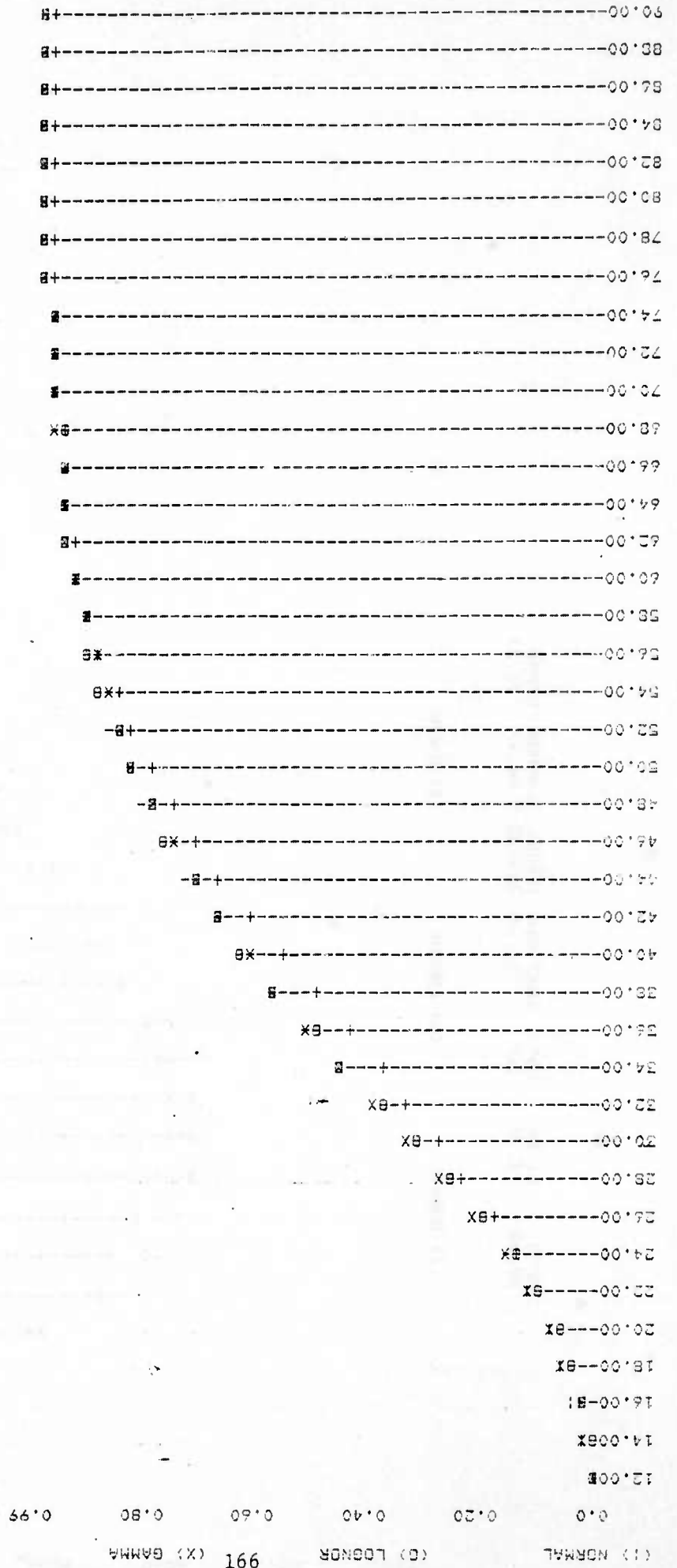


Figure 70. Histogram for Pack Ice

Figure 70a. Cumulative Distribution for Pack Ice



	Ice	N	L	G
12.000	0.002	0.010	0.002	0.005
14.000	0.016	0.033	0.017	0.014
16.000	0.034	0.058	0.033	0.030
18.000	0.054	0.083	0.053	0.052
20.000	0.076	0.112	0.076	0.079
22.000	0.096	0.146	0.105	0.120
24.000	0.120	0.186	0.153	0.165
26.000	0.150	0.230	0.212	0.216
28.000	0.201	0.279	0.276	0.272
30.000	0.254	0.331	0.342	0.331
32.000	0.319	0.385	0.409	0.392
34.000	0.385	0.443	0.474	0.454
36.000	0.443	0.513	0.537	0.513
38.000	0.513	0.577	0.596	0.571
40.000	0.577	0.630	0.649	0.625
42.000	0.630	0.677	0.698	0.675
44.000	0.677	0.730	0.741	0.720
46.000	0.730	0.771	0.779	0.761
48.000	0.771	0.808	0.812	0.798
50.000	0.808	0.839	0.841	0.830
52.000	0.839	0.872	0.866	0.858
54.000	0.872	0.891	0.887	0.882
56.000	0.891	0.910	0.905	0.902
58.000	0.910	0.923	0.921	0.919
60.000	0.923	0.935	0.934	0.934
62.000	0.935	0.944	0.945	0.946
64.000	0.944	0.952	0.954	0.956
66.000	0.952	0.957	0.961	0.964
68.000	0.957	0.965	0.968	0.970
70.000	0.965	0.973	0.973	0.976
72.000	0.973	0.979	0.978	0.980
74.000	0.979	0.983	0.981	0.984
76.000	0.983	0.985	0.984	0.986
78.000	0.985	0.987	0.987	0.989
80.000	0.987	0.990	0.989	0.990
82.000	0.990	0.991	0.991	0.992
84.000	0.991	0.992	0.992	0.993
86.000	0.992	0.994	0.994	0.994
88.000	0.994	0.995	0.995	0.994
90.000	0.995	0.995	0.995	0.995

Figure 70b. Cumulative Distribution Data

MEAN 38.17 ST DEV 13.62 POP 37 CHI2 MAX 43.77 NORMAL LOGNOR 69.66 GAMMA 69.66
 38.17 13.62 37 43.77 69.66 69.66

(1) NORMAL

(0) LOGNOR

(X) GAMMA

0.0 0.02 0.04 0.06 0.08 0.10

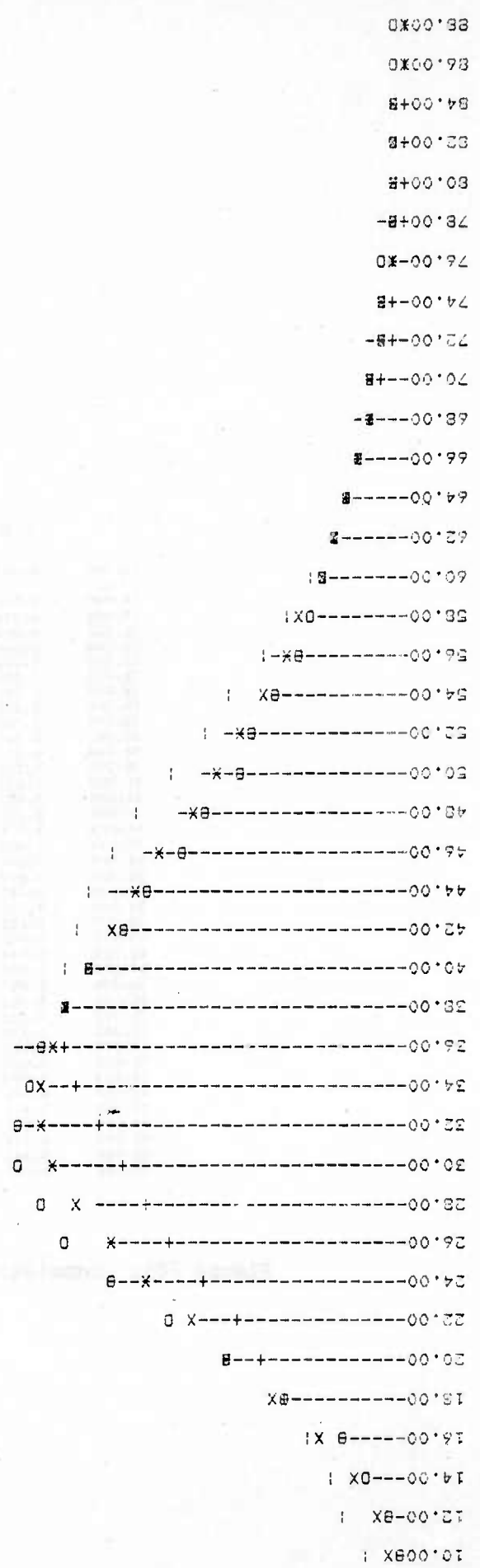


Figure 71. Histogram for Pack Ice

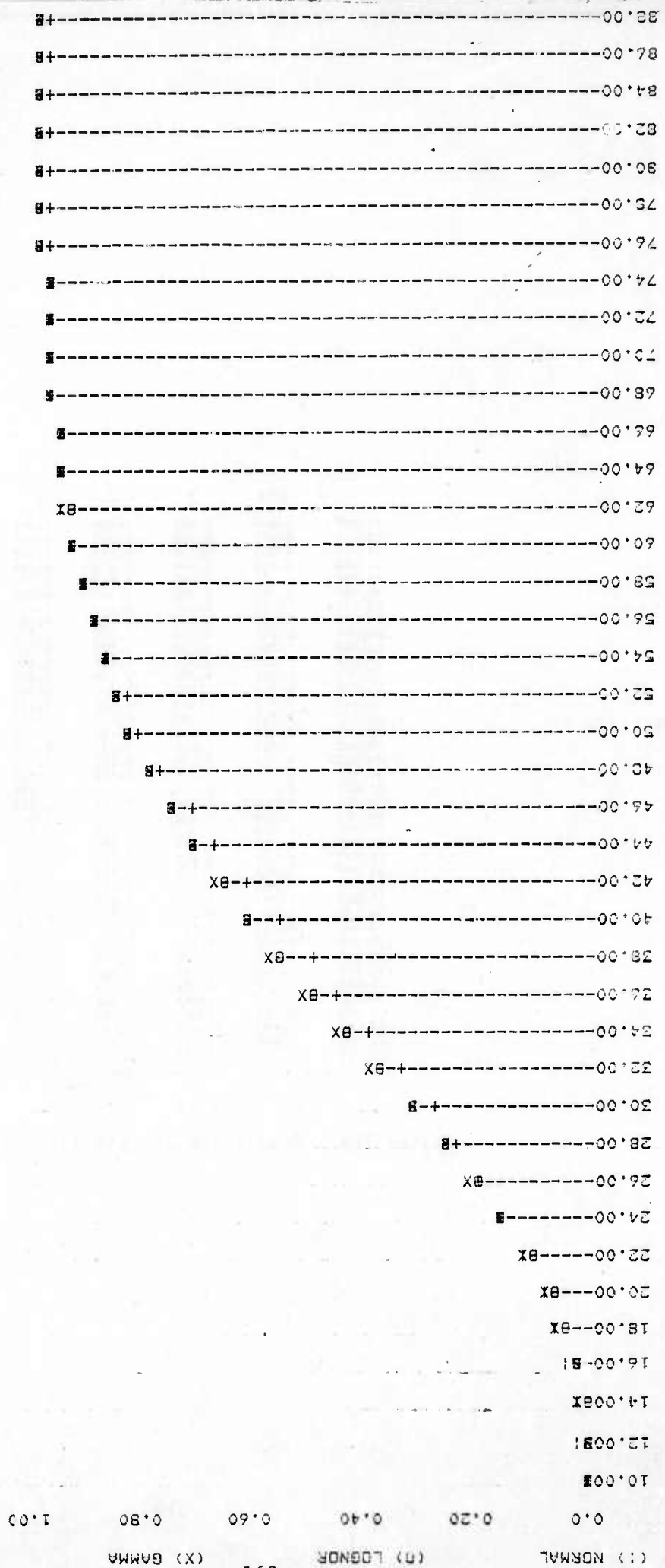


Figure 71a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
10.000	0.000	0.007	0.000	0.002
12.000	0.003	0.016	0.002	0.007
14.000	0.007	0.028	0.007	0.015
16.000	0.018	0.044	0.018	0.030
18.000	0.037	0.063	0.030	0.051
20.000	0.067	0.088	0.047	0.080
22.000	0.101	0.116	0.107	0.117
24.000	0.151	0.151	0.156	0.161
26.000	0.201	0.190	0.213	0.212
28.000	0.254	0.234	0.276	0.260
30.000	0.315	0.283	0.342	0.320
32.000	0.380	0.336	0.400	0.390
34.000	0.440	0.392	0.473	0.451
36.000	0.506	0.450	0.535	0.512
38.000	0.565	0.508	0.593	0.570
40.000	0.618	0.566	0.646	0.625
42.000	0.666	0.622	0.694	0.676
44.000	0.716	0.675	0.737	0.722
46.000	0.761	0.726	0.776	0.764
48.000	0.799	0.771	0.809	0.801
50.000	0.834	0.811	0.830	0.833
52.000	0.864	0.846	0.853	0.861
54.000	0.886	0.876	0.881	0.885
56.000	0.907	0.901	0.903	0.906
58.000	0.921	0.921	0.918	0.923
60.000	0.933	0.937	0.931	0.937
62.000	0.944	0.950	0.943	0.949
64.000	0.954	0.960	0.952	0.959
66.000	0.961	0.967	0.960	0.967
68.000	0.969	0.972	0.966	0.974
70.000	0.975	0.976	0.972	0.979
72.000	0.982	0.979	0.977	0.983
74.000	0.986	0.981	0.981	0.987
76.000	0.988	0.982	0.984	0.989
78.000	0.991	0.983	0.986	0.992
80.000	0.993	0.983	0.989	0.993
82.000	0.994	0.983	0.991	0.995
84.000	0.995	0.984	0.992	0.996
86.000	0.996	0.984	0.993	0.996
88.000	0.997	0.983	0.994	0.997

Figure 71b. Cumulative Distribution Data

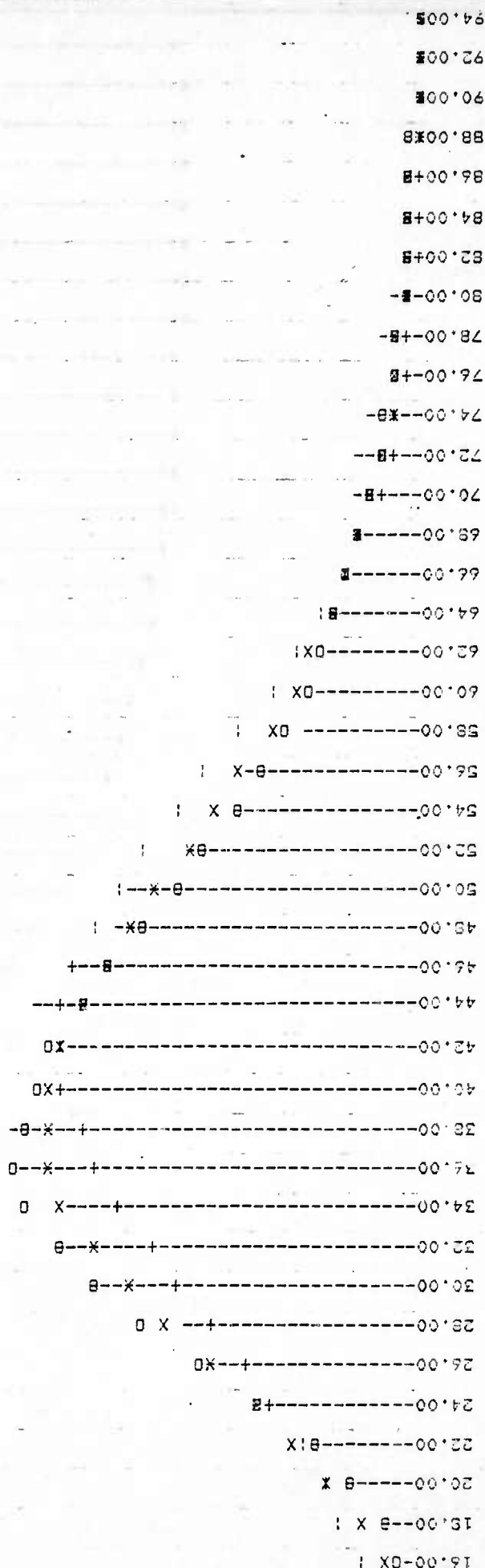
MEAN 42.34 ST DEV 13.26 DOF 37 CHI2 MAX 43.77 NORMAL LOGNOR GAMMA 42.03 60.75

(X) GAMMA

(O) LOGNOR

(I) NORMAL

0.10 0.08 0.06 0.04 0.02 0.0



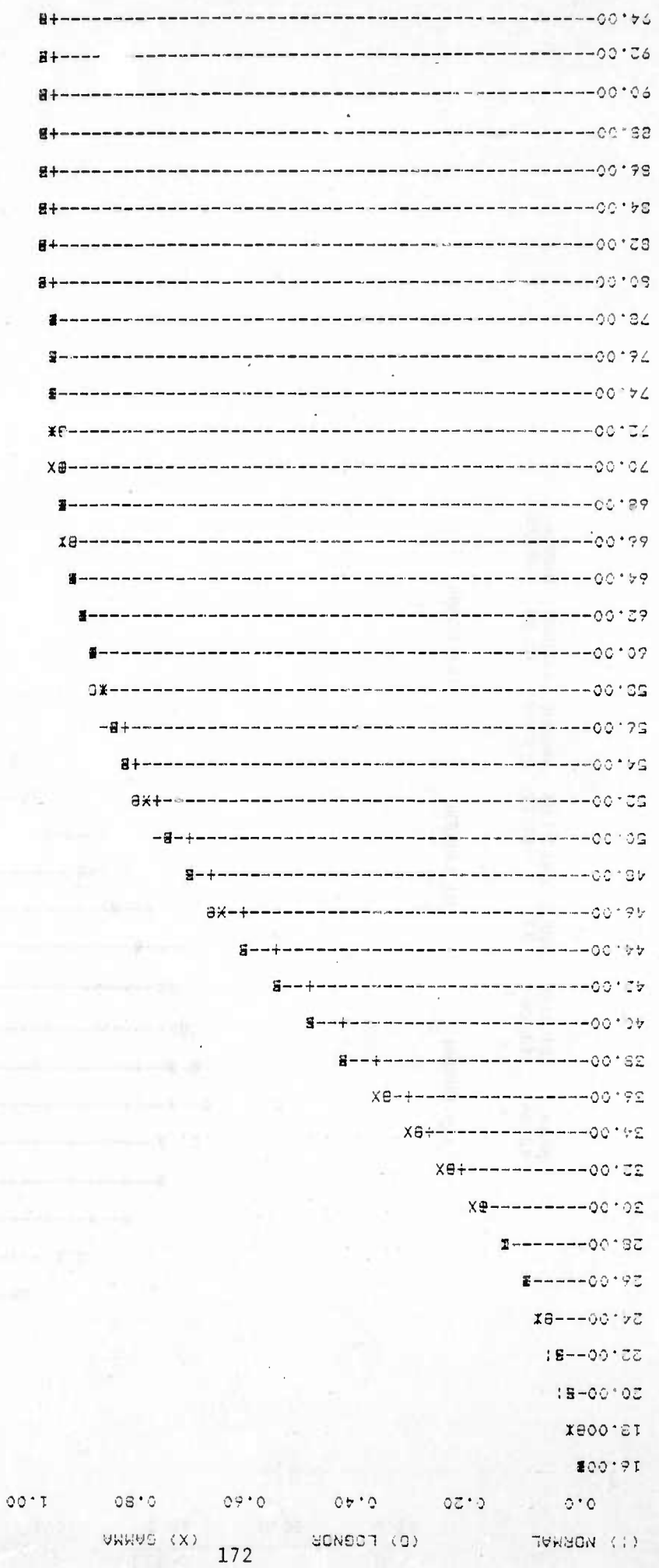


Figure 72a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
6				
14.000	0.001	0.008	0.002	0.004
18.000	0.005	0.020	0.007	0.013
20.000	0.015	0.034	0.010	0.026
22.000	0.030	0.053	0.030	0.045
24.000	0.054	0.074	0.039	0.072
26.000	0.091	0.104	0.095	0.106
28.000	0.129	0.138	0.140	0.148
30.000	0.183	0.177	0.195	0.197
32.000	0.243	0.221	0.255	0.252
34.000	0.301	0.270	0.320	0.311
36.000	0.367	0.324	0.387	0.373
38.000	0.436	0.381	0.454	0.446
40.000	0.495	0.440	0.519	0.498
42.000	0.554	0.500	0.580	0.558
44.000	0.618	0.560	0.637	0.615
46.000	0.675	0.618	0.698	0.668
48.000	0.725	0.673	0.734	0.715
50.000	0.773	0.724	0.775	0.760
52.000	0.811	0.770	0.811	0.798
54.000	0.841	0.811	0.831	0.830
56.000	0.870	0.846	0.858	0.851
58.000	0.897	0.875	0.890	0.884
60.000	0.903	0.901	0.909	0.907
62.000	0.918	0.921	0.925	0.925
64.000	0.932	0.931	0.938	0.939
66.000	0.941	0.94	0.949	0.951
68.000	0.951	0.958	0.958	0.961
70.000	0.961	0.965	0.966	0.968
72.000	0.971	0.970	0.972	0.975
74.000	0.979	0.974	0.977	0.980
76.000	0.982	0.975	0.981	0.983
78.000	0.987	0.978	0.985	0.987
80.000	0.990	0.979	0.987	0.989
82.000	0.991	0.979	0.990	0.991
84.000	0.993	0.980	0.992	0.992
86.000	0.995	0.980	0.993	0.993
88.000	0.996	0.980	0.994	0.994
90.000	0.996	0.980	0.995	0.995
92.000	0.997	0.980	0.995	0.995
94.000	0.998	0.980	0.997	0.996

Figure 72b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
34.01	12.66	37	43.77	390.25	40.37	67.85

(;) NORMAL (O) LOGNOR (X) GAMMA

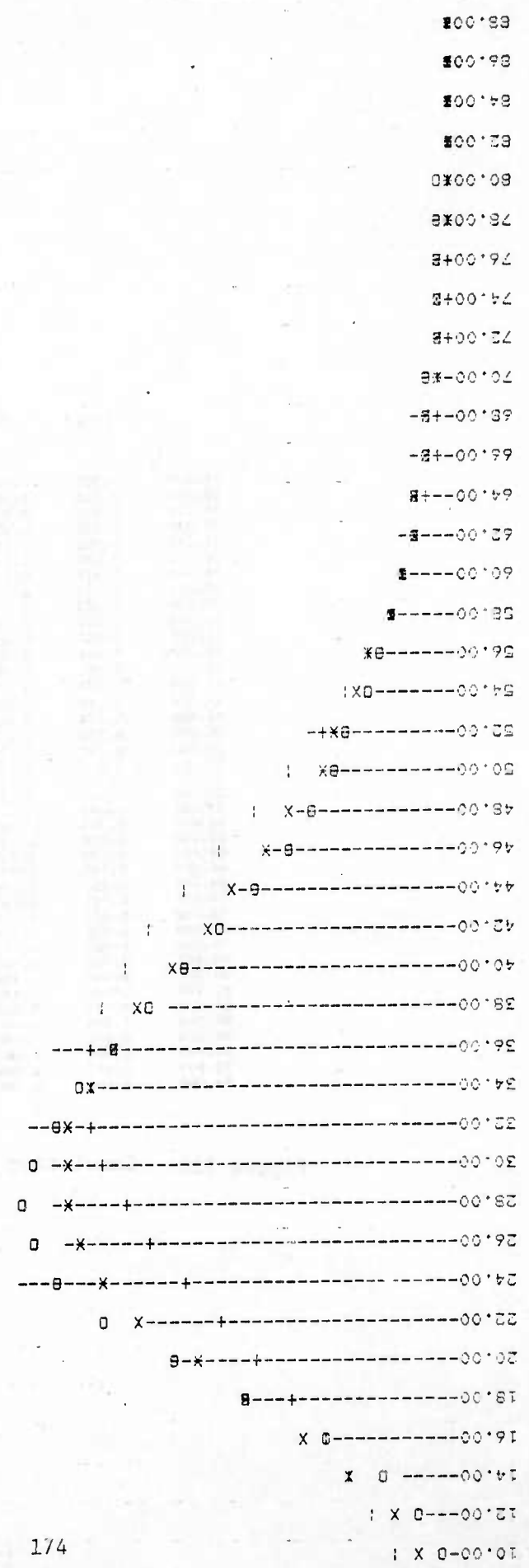


Figure 73. Histogram for Pack Ice

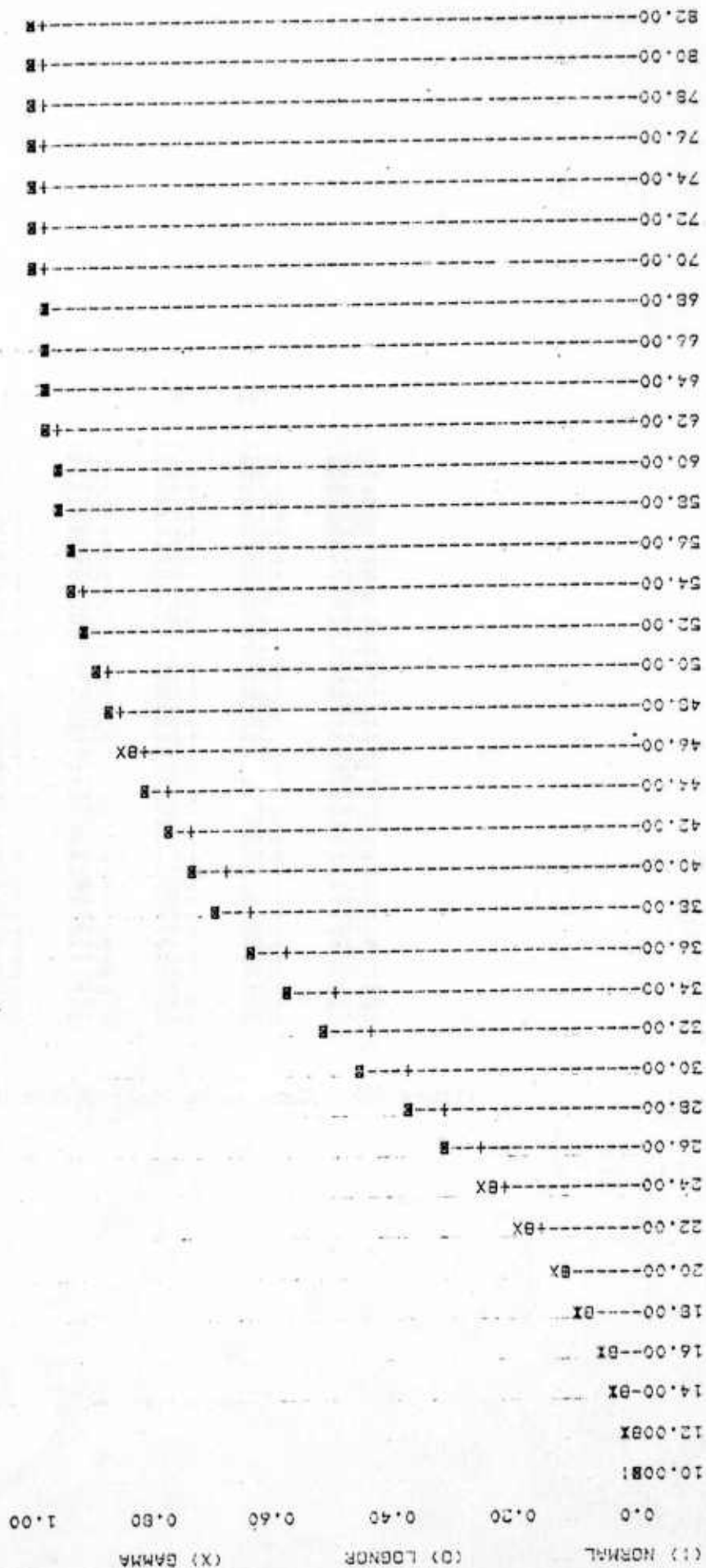


Figure 73a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
10.000	0.000	0.010	0.001	0.005
12.000	0.005	0.024	0.007	0.015
14.000	0.014	0.045	0.017	0.033
16.000	0.034	0.065	0.032	0.059
18.000	0.070	0.094	0.079	0.095
20.000	0.119	0.128	0.124	0.140
22.000	0.172	0.168	0.185	0.193
24.000	0.246	0.214	0.253	0.252
26.000	0.312	0.266	0.325	0.317
28.000	0.380	0.322	0.398	0.383
30.000	0.447	0.382	0.470	0.450
32.000	0.518	0.444	0.539	0.515
34.000	0.579	0.507	0.602	0.577
36.000	0.646	0.569	0.660	0.635
38.000	0.694	0.629	0.711	0.689
40.000	0.741	0.686	0.756	0.737
42.000	0.779	0.737	0.795	0.779
44.000	0.815	0.783	0.829	0.816
46.000	0.847	0.823	0.858	0.848
48.000	0.873	0.858	0.882	0.875
50.000	0.894	0.886	0.902	0.898
52.000	0.918	0.909	0.919	0.918
54.000	0.940	0.927	0.933	0.933
56.000	0.944	0.941	0.945	0.947
58.000	0.954	0.952	0.955	0.957
60.000	0.963	0.959	0.963	0.966
62.000	0.970	0.965	0.969	0.973
64.000	0.975	0.969	0.975	0.978
66.000	0.981	0.971	0.979	0.982
68.000	0.987	0.973	0.983	0.986
70.000	0.990	0.974	0.986	0.988
72.000	0.993	0.975	0.989	0.991
74.000	0.993	0.975	0.991	0.992
76.000	0.995	0.976	0.992	0.993
78.000	0.996	0.976	0.994	0.994
80.000	0.996	0.976	0.995	0.995
82.000	0.996	0.976	0.996	0.996
84.000	0.997	0.976	0.996	0.996
86.000	0.997	0.976	0.997	0.996
88.000	0.998	0.976	0.997	0.997

Figure 73b. Cumulative Distribution Data

MEAN 38.88 ST DEV 14.17 DOF 37 CHI2 MAX 43.77 NORMAL 1339.97 LOGNOR 75.36 GAMMA 197.92

0.0 0.02 0.04 0.06 0.08 0.10

(1) NORMAL

(0) LOGNOR

(X) GAMMA

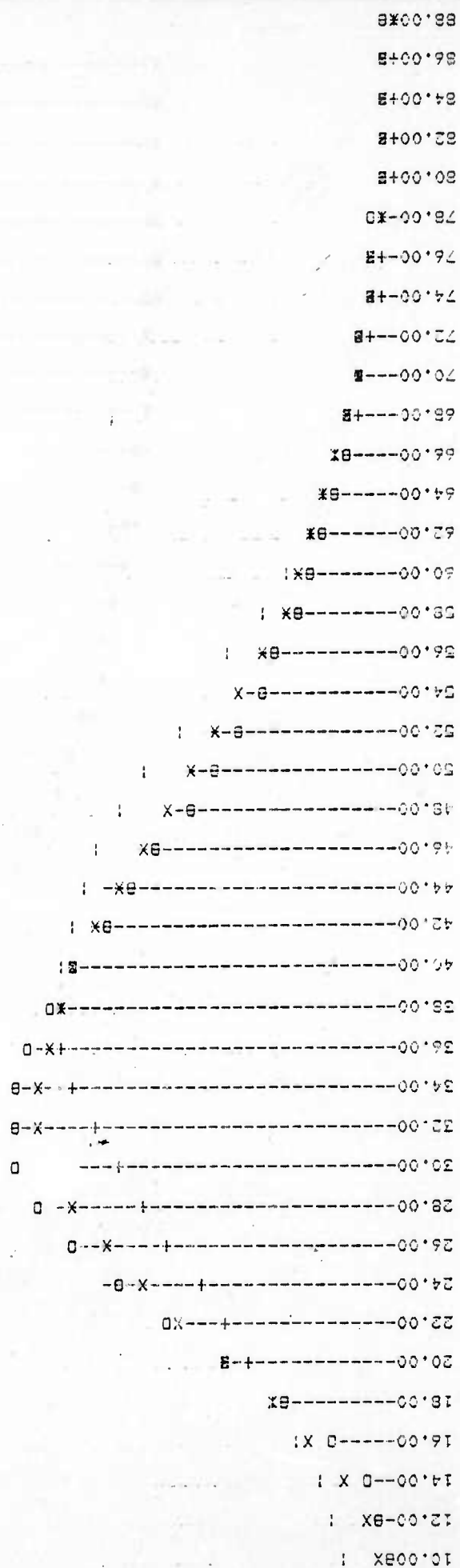


Figure 74. Histogram for Pack Ice

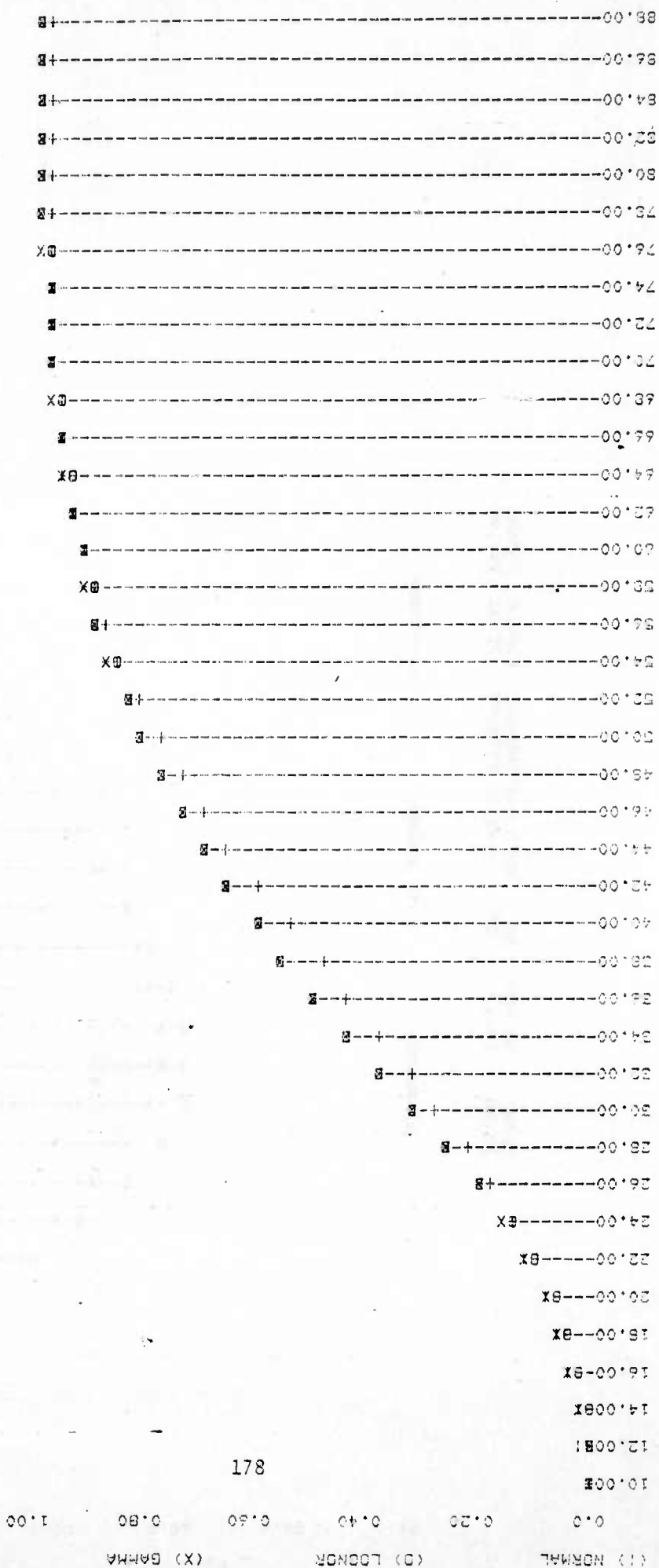


Figure 74a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
6				
10.000	0.000	0.007	0.000	0.002
12.000	0.001	0.016	0.002	0.007
14.000	0.004	0.028	0.007	0.014
16.000	0.013	0.044	0.017	0.030
18.000	0.031	0.063	0.035	0.051
20.000	0.058	0.086	0.062	0.079
22.000	0.092	0.114	0.100	0.114
24.000	0.141	0.146	0.147	0.157
26.000	0.193	0.183	0.201	0.206
28.000	0.249	0.225	0.262	0.259
30.000	0.308	0.272	0.325	0.316
32.000	0.372	0.322	0.390	0.376
34.000	0.435	0.375	0.454	0.435
36.000	0.496	0.430	0.516	0.494
38.000	0.553	0.486	0.574	0.551
40.000	0.605	0.542	0.628	0.605
42.000	0.654	0.597	0.677	0.655
44.000	0.702	0.650	0.721	0.701
46.000	0.744	0.699	0.760	0.744
48.000	0.780	0.745	0.794	0.781
50.000	0.814	0.786	0.825	0.815
52.000	0.844	0.823	0.851	0.844
54.000	0.868	0.855	0.873	0.869
56.000	0.889	0.882	0.893	0.891
58.000	0.907	0.905	0.910	0.910
60.000	0.922	0.923	0.924	0.924
62.000	0.935	0.938	0.946	0.939
64.000	0.946	0.950	0.946	0.950
66.000	0.955	0.959	0.955	0.960
68.000	0.963	0.966	0.962	0.967
70.000	0.969	0.971	0.968	0.974
72.000	0.975	0.974	0.973	0.979
74.000	0.980	0.977	0.978	0.983
76.000	0.983	0.979	0.981	0.986
78.000	0.986	0.980	0.984	0.989
80.000	0.989	0.981	0.987	0.991
82.000	0.990	0.982	0.989	0.993
84.000	0.993	0.982	0.991	0.994
86.000	0.994	0.982	0.992	0.995
88.000	0.995	0.982	0.993	0.996

Figure 74b. Cumulative Distribution Data

MEAN 39.21 ST DEV 13.93 DOF 37 CHI2 MAX 43.77 NORMAL LOGNOR GAMMA 391.32

(1) NORMAL (0) LOGNOR (X) GAMMA

0.10 0.08 0.06 0.04 0.02 0.0

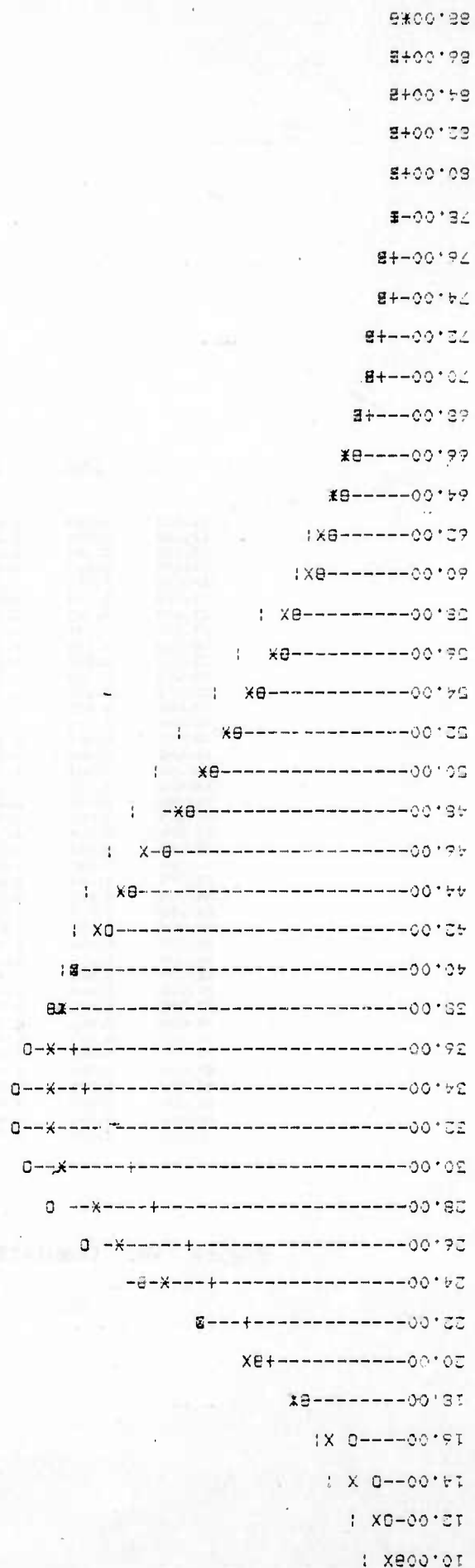


Figure 75. Histogram for Pack Ice

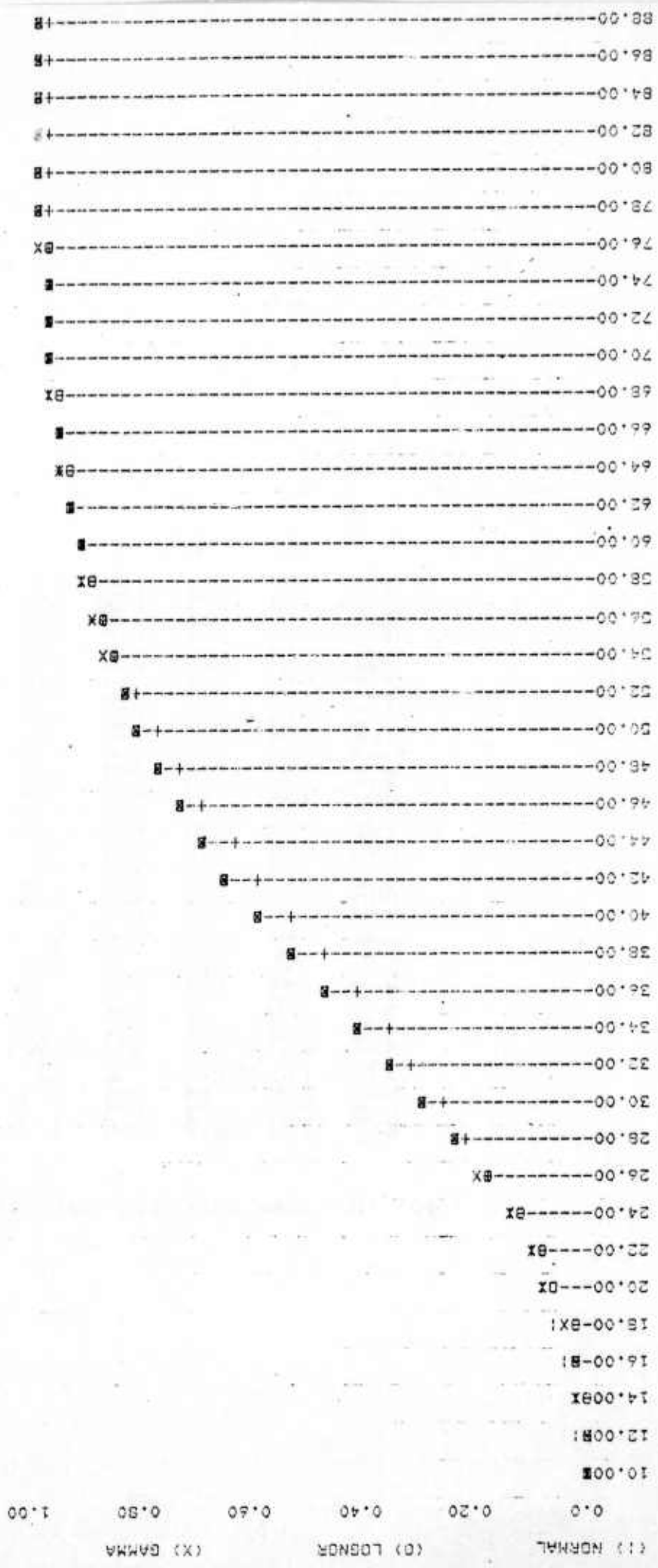


Figure 75a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
10.000	0.000	0.006	0.000	0.002
12.000	0.001	0.015	0.001	0.006
14.000	0.003	0.026	0.005	0.013
16.000	0.010	0.040	0.013	0.025
18.000	0.025	0.058	0.029	0.044
20.000	0.049	0.080	0.053	0.070
22.000	0.080	0.107	0.088	0.104
24.000	0.125	0.139	0.132	0.145
26.000	0.176	0.175	0.186	0.192
28.000	0.232	0.217	0.245	0.245
30.000	0.293	0.263	0.309	0.302
32.000	0.357	0.313	0.374	0.362
34.000	0.422	0.366	0.440	0.422
36.000	0.485	0.422	0.503	0.482
38.000	0.544	0.479	0.563	0.541
40.000	0.599	0.536	0.618	0.596
42.000	0.648	0.592	0.669	0.648
44.000	0.696	0.646	0.715	0.696
46.000	0.738	0.697	0.755	0.739
48.000	0.777	0.744	0.791	0.770
50.000	0.812	0.786	0.823	0.813
52.000	0.842	0.824	0.850	0.843
54.000	0.867	0.856	0.873	0.869
56.000	0.888	0.884	0.893	0.891
58.000	0.907	0.907	0.911	0.911
60.000	0.921	0.926	0.925	0.927
62.000	0.936	0.941	0.937	0.940
64.000	0.947	0.953	0.947	0.952
66.000	0.956	0.962	0.956	0.961
68.000	0.964	0.969	0.963	0.968
70.000	0.970	0.974	0.969	0.975
72.000	0.976	0.977	0.974	0.980
74.000	0.981	0.980	0.979	0.984
76.000	0.984	0.982	0.982	0.987
78.000	0.987	0.983	0.985	0.990
80.000	0.990	0.984	0.988	0.992
82.000	0.991	0.984	0.990	0.993
84.000	0.993	0.984	0.991	0.995
86.000	0.994	0.985	0.993	0.996
88.000	0.995	0.985	0.994	0.997

Figure 75b. Cumulative Distribution Data

MEAN 39.50 ST DEV 17.04 DOF 37 CHI2 MAX 43.77 NORMAL 501.39 LOGNOR 74.48 GAMMA 176.07

(O) LOGNOR

(X) GAMMA

(.) NORMAL

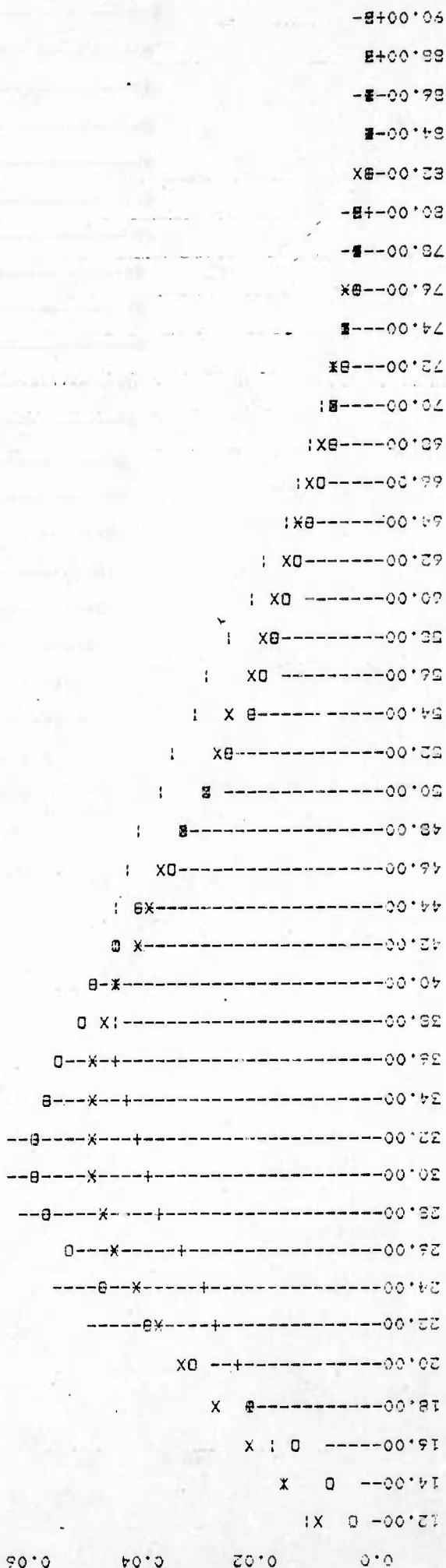


Figure 76. Histogram for Pack Ice (1/2 R Lead)

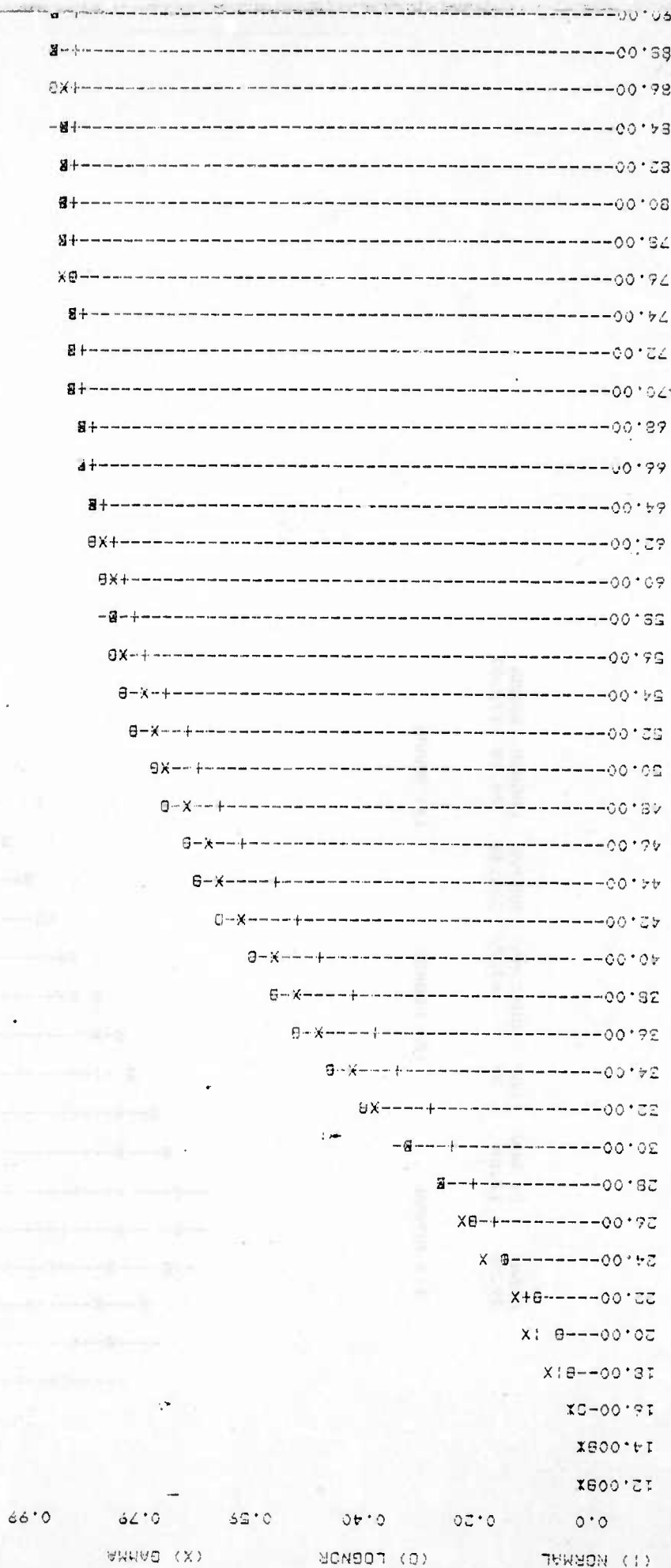


Figure 76a. Cumulative Distribution for Pack Ice (1/2 R Lead)

	Ice	N	L	G
12.000	0.000	0.013	0.003	0.011
14.000	0.002	0.020	0.011	0.027
16.000	0.010	0.036	0.025	0.040
18.000	0.032	0.057	0.040	0.075
20.000	0.111	0.117	0.120	0.148
22.000	0.167	0.155	0.168	0.191
24.000	0.219	0.184	0.200	0.237
26.000	0.282	0.232	0.200	0.286
28.000	0.345	0.262	0.340	0.336
30.000	0.410	0.304	0.399	0.387
32.000	0.469	0.347	0.458	0.430
34.000	0.524	0.395	0.514	0.487
36.000	0.559	0.441	0.557	0.535
38.000	0.619	0.488	0.616	0.580
40.000	0.662	0.534	0.662	0.623
42.000	0.703	0.579	0.703	0.663
44.000	0.737	0.623	0.740	0.700
46.000	0.771	0.666	0.773	0.734
48.000	0.796	0.706	0.802	0.765
50.000	0.822	0.739	0.828	0.793
52.000	0.845	0.771	0.851	0.819
54.000	0.864	0.801	0.871	0.841
56.000	0.879	0.827	0.888	0.861
58.000	0.891	0.849	0.903	0.879
60.000	0.903	0.869	0.916	0.894
62.000	0.916	0.886	0.928	0.908
64.000	0.925	0.900	0.938	0.920
66.000	0.932	0.911	0.946	0.930
68.000	0.940	0.921	0.954	0.939
70.000	0.948	0.928	0.960	0.946
72.000	0.954	0.934	0.965	0.953
74.000	0.959	0.939	0.970	0.959
76.000	0.966	0.943	0.974	0.963
78.000	0.973	0.945	0.977	0.968
80.000	0.975	0.947	0.980	0.971
82.000	0.978	0.949	0.983	0.974
84.000	0.982	0.950	0.985	0.976
86.000	0.985	0.951	0.987	0.979
88.000	0.988	0.952	0.989	0.980

Figure 76b. Cumulative Distribution Data

MEAN 36.67 ST DEV 13.86 DOF 37 CHI2 MAX 43.77 NORMAL 4040.15 LOGNOR 204.55 GAMMA 770.46

(1) NORMAL (0) LOGNOR (X) GAMMA

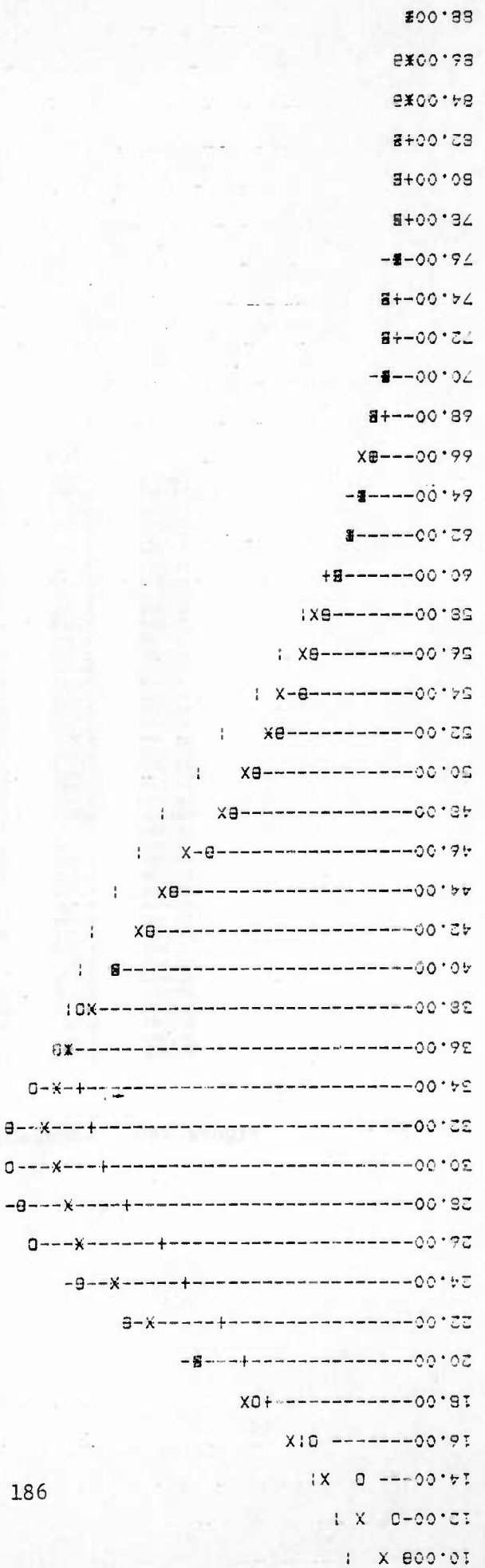


Figure 77. Histogram for Pack Ice (1/2 R Lead)

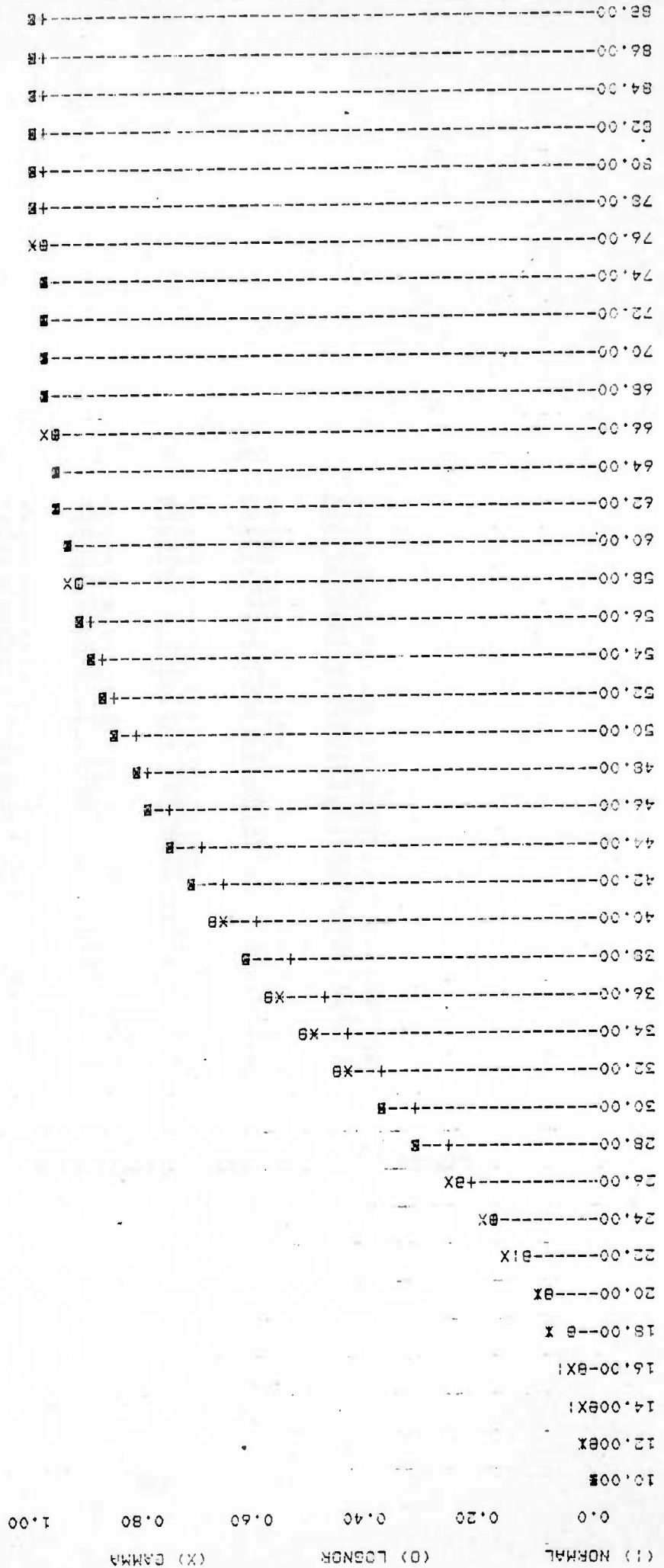


Figure 77a. Cumulative Distribution for Pack Ice (1/2 R Lead)

	Ice	N	L	G
10.000	0.000	0.009	0.001	0.004
12.000	0.001	0.021	0.004	0.012
14.000	0.005	0.036	0.011	0.025
16.000	0.013	0.055	0.026	0.045
18.000	0.040	0.079	0.052	0.073
20.000	0.077	0.106	0.088	0.110
22.000	0.127	0.139	0.135	0.153
24.000	0.185	0.177	0.191	0.203
26.000	0.248	0.220	0.254	0.259
28.000	0.315	0.267	0.321	0.318
30.000	0.381	0.318	0.390	0.378
32.000	0.449	0.373	0.457	0.440
34.000	0.511	0.429	0.522	0.500
36.000	0.571	0.487	0.582	0.558
38.000	0.625	0.544	0.638	0.612
40.000	0.675	0.600	0.688	0.663
42.000	0.719	0.653	0.733	0.709
44.000	0.758	0.703	0.772	0.751
46.000	0.794	0.749	0.807	0.789
48.000	0.823	0.790	0.837	0.822
50.000	0.849	0.827	0.862	0.850
52.000	0.873	0.858	0.884	0.875
54.000	0.894	0.884	0.903	0.896
56.000	0.910	0.906	0.919	0.914
58.000	0.924	0.924	0.932	0.930
60.000	0.937	0.938	0.943	0.942
62.000	0.948	0.948	0.953	0.953
64.000	0.958	0.957	0.961	0.962
66.000	0.964	0.963	0.967	0.969
68.000	0.970	0.967	0.973	0.975
70.000	0.975	0.970	0.977	0.979
72.000	0.980	0.973	0.981	0.983
74.000	0.983	0.974	0.984	0.986
76.000	0.987	0.975	0.987	0.989
78.000	0.989	0.976	0.989	0.991
80.000	0.992	0.976	0.991	0.992
82.000	0.993	0.977	0.992	0.994
84.000	0.994	0.977	0.994	0.995
86.000	0.995	0.977	0.995	0.995
88.000	0.996	0.977	0.996	0.996

Figure 77b. Cumulative Distribution Data

MEAN 41.89 ST DEV 12.41 DOF 37 CHI2 M-X 43.77 NORMAL 919.82 LOGNOR 40.88 GAMMA 60.29

() NORMAL (O) LOGNOR (X) GAMMA

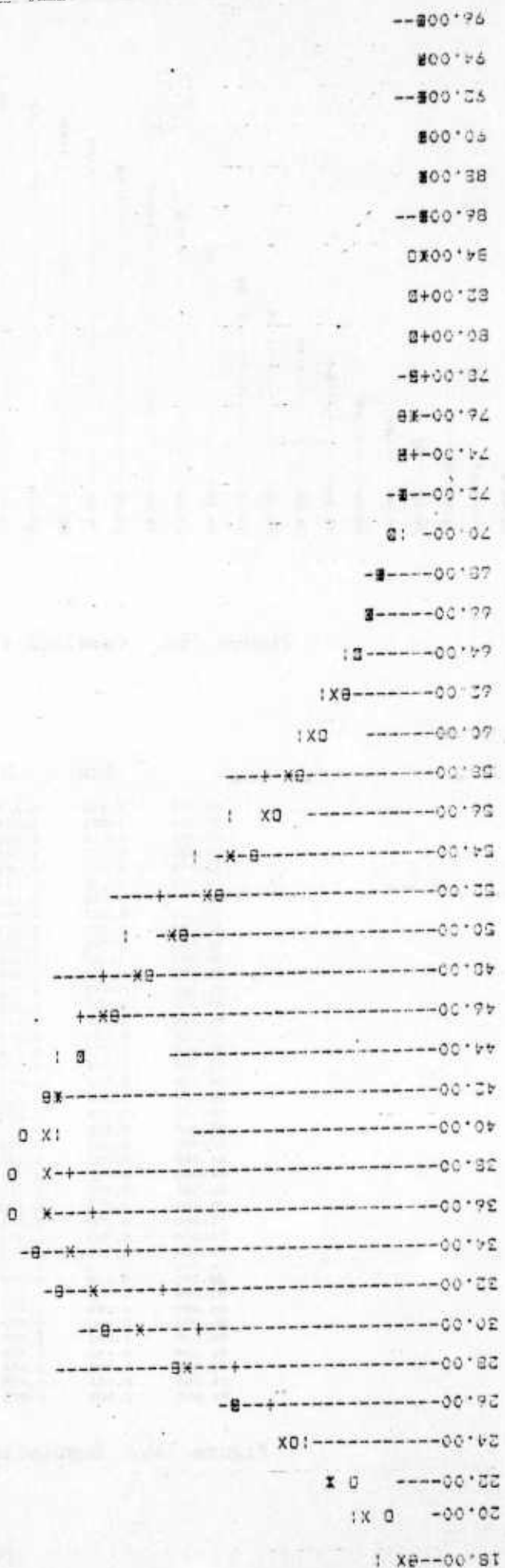


Figure 78. Histogram for Pack Ice

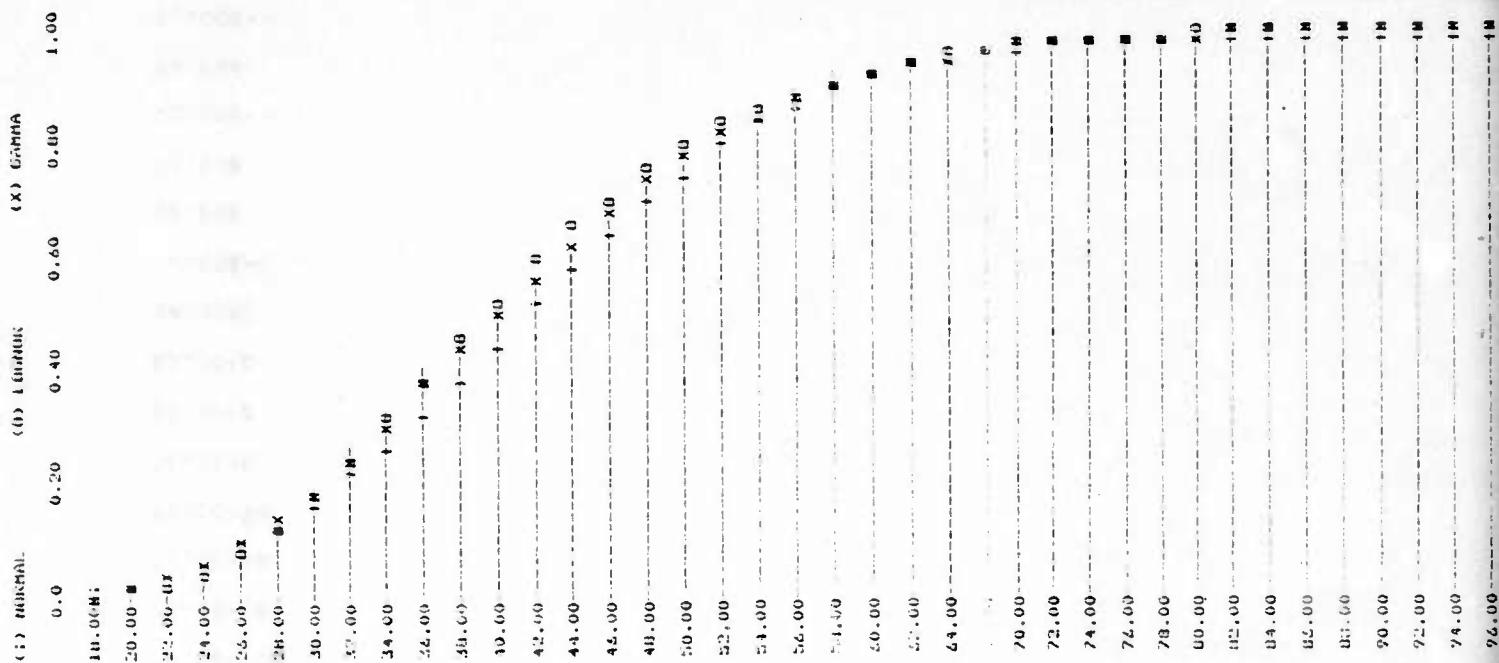


Figure 78a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
18.000	0.003	0.010	0.003	0.007
20.000	0.003	0.024	0.010	0.018
22.000	0.010	0.042	0.024	0.036
24.000	0.020	0.064	0.048	0.061
26.000	0.047	0.093	0.081	0.095
28.000	0.110	0.127	0.126	0.137
30.000	0.190	0.168	0.181	0.188
32.000	0.257	0.214	0.245	0.245
34.000	0.327	0.267	0.314	0.307
36.000	0.393	0.324	0.385	0.372
38.000	0.457	0.385	0.457	0.439
40.000	0.497	0.449	0.526	0.505
42.000	0.563	0.513	0.592	0.569
44.000	0.607	0.576	0.652	0.629
46.000	0.667	0.637	0.706	0.684
48.000	0.730	0.694	0.754	0.734
50.000	0.777	0.746	0.796	0.778
52.000	0.830	0.792	0.831	0.817
54.000	0.867	0.832	0.862	0.850
56.000	0.887	0.866	0.887	0.878
58.000	0.920	0.894	0.908	0.901
60.000	0.930	0.916	0.926	0.921
62.000	0.943	0.933	0.940	0.937
64.000	0.953	0.946	0.952	0.949
66.000	0.963	0.956	0.961	0.960
68.000	0.973	0.963	0.969	0.968
70.000	0.973	0.968	0.975	0.974
72.000	0.980	0.971	0.980	0.979
74.000	0.983	0.974	0.984	0.983
76.000	0.987	0.975	0.987	0.986
78.000	0.990	0.976	0.989	0.988
80.000	0.990	0.977	0.991	0.989
82.000	0.996	0.977	0.993	0.991
84.000	0.999	0.977	0.994	0.992
86.000	0.993	0.977	0.995	0.993
88.000	0.993	0.977	0.996	0.993
90.000	0.993	0.978	0.996	0.994
92.000	0.997	0.978	0.997	0.994
94.000	0.997	0.979	0.997	0.994
96.000	1.000	0.978	0.998	0.994

Figure 78b. Cumulative Distribution Data

MEAN 46.32 ST DEV 14.51 DOF 37 CHI2 MAX 43.77 NORMAL 400.01 LOGNOR 51.09 GAMMA 93.10

PLOT (F/C/NO) ? F

(1) NORMAL

(0) LOGNOR

(X) GAMMA

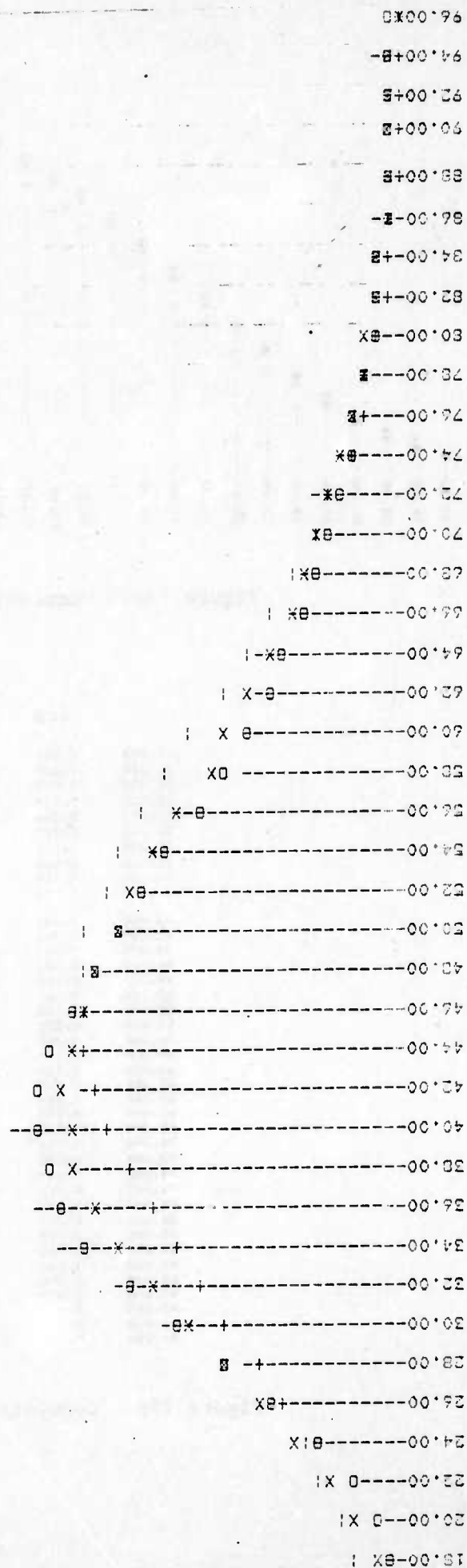


Figure 79. Histogram for Pack Ice

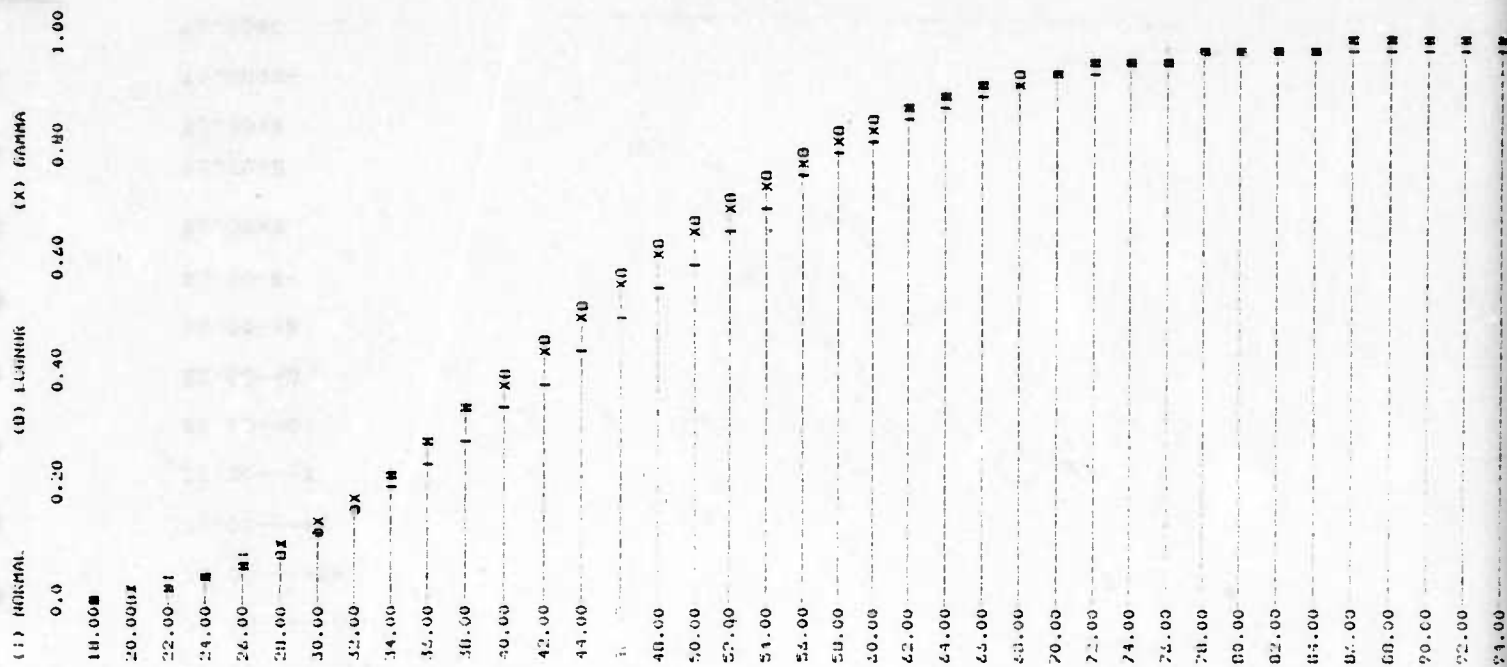


Figure 79a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
10.000	0.001	0.003	0.002	0.005
20.000	0.004	0.019	0.007	0.013
30.000	0.009	0.033	0.015	0.025
40.000	0.024	0.047	0.030	0.043
50.000	0.046	0.070	0.052	0.064
60.000	0.072	0.095	0.083	0.096
70.000	0.111	0.124	0.122	0.133
80.000	0.140	0.158	0.148	0.175
90.000	0.218	0.196	0.201	0.223
100.000	0.270	0.239	0.279	0.275
110.000	0.311	0.281	0.306	0.313
120.000	0.400	0.333	0.402	0.337
130.000	0.454	0.384	0.453	0.444
140.000	0.511	0.442	0.522	0.501
150.000	0.567	0.497	0.579	0.556
160.000	0.618	0.551	0.631	0.608
170.000	0.665	0.605	0.679	0.657
180.000	0.704	0.656	0.723	0.702
190.000	0.750	0.703	0.752	0.743
200.000	0.788	0.747	0.797	0.781
210.000	0.814	0.787	0.827	0.814
220.000	0.839	0.822	0.853	0.843
230.000	0.862	0.853	0.876	0.868
240.000	0.886	0.879	0.896	0.890
250.000	0.905	0.901	0.912	0.908
260.000	0.922	0.919	0.927	0.924
270.000	0.934	0.934	0.939	0.937
280.000	0.948	0.945	0.949	0.948
290.000	0.959	0.954	0.957	0.958
300.000	0.966	0.961	0.965	0.965
310.000	0.971	0.966	0.970	0.971
320.000	0.974	0.970	0.975	0.976
330.000	0.978	0.973	0.980	0.980
340.000	0.982	0.974	0.983	0.984
350.000	0.986	0.975	0.986	0.986
360.000	0.988	0.977	0.988	0.988
370.000	0.989	0.977	0.990	0.990
380.000	0.991	0.978	0.992	0.991
390.000	0.995	0.978	0.993	0.992
400.000	0.995	0.978	0.994	0.993

Figure 79b. Cumulative Distribution Data

MEAN 41.42 ST DEV 14.12 DOF 37 CHI2 MAX 43.7715443.92 LOGNOR GAMMA 462.83 2607.80

(X) GAMMA

(O) LOGNOR

(I) NORMAL

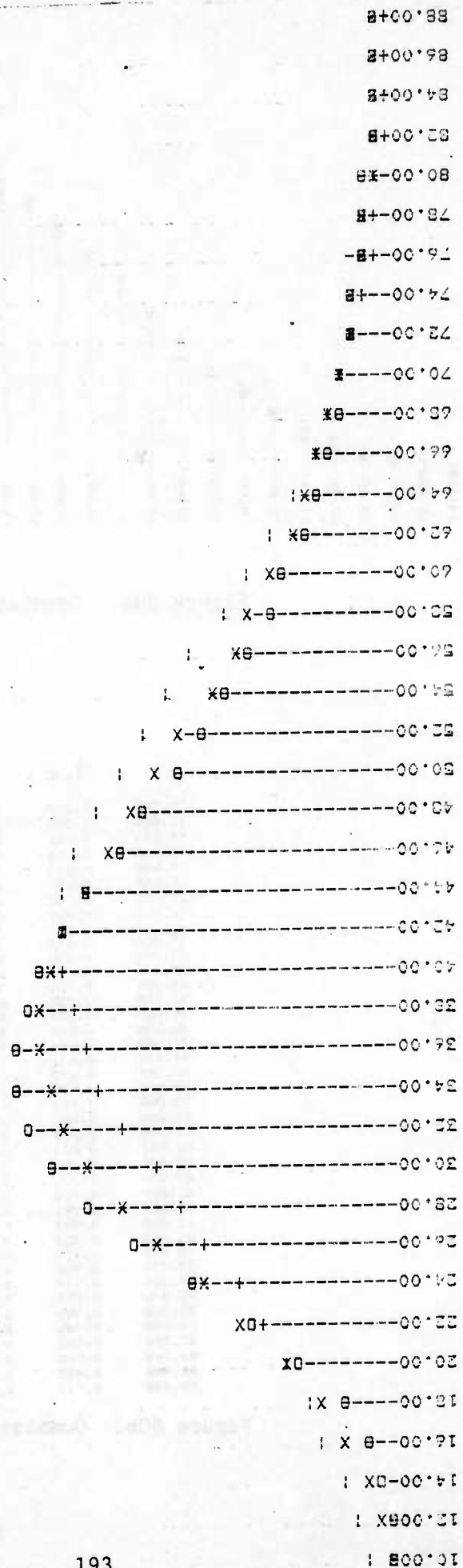


Figure 80. Histogram for Pack Ice (Homogeneous)

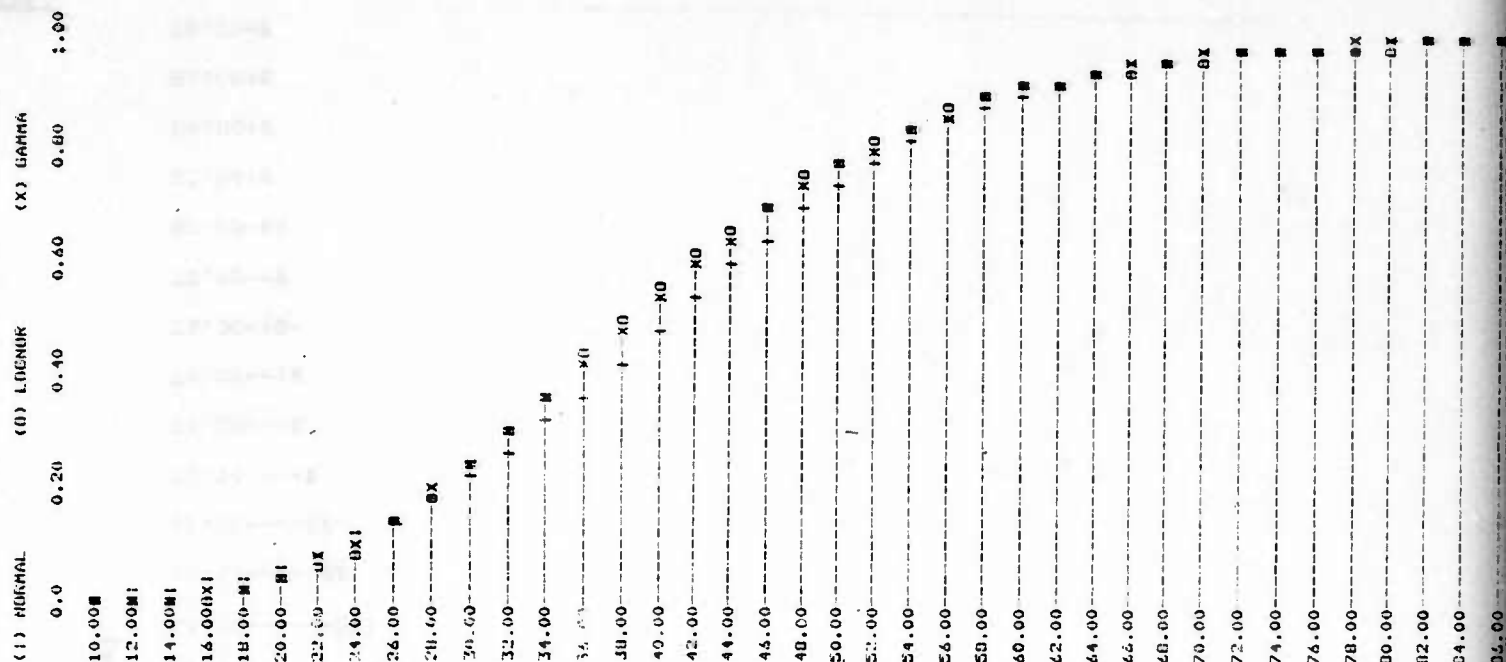


Figure 80a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
10.000	0.000	0.005	0.000	0.001
12.000	0.000	0.011	0.000	0.003
14.000	0.001	0.020	0.002	0.007
16.000	0.004	0.031	0.006	0.015
18.000	0.012	0.045	0.015	0.028
20.000	0.025	0.063	0.031	0.047
22.000	0.043	0.085	0.055	0.073
24.000	0.068	0.112	0.087	0.106
26.000	0.100	0.144	0.123	0.147
28.000	0.137	0.179	0.164	0.193
30.000	0.180	0.217	0.211	0.243
32.000	0.226	0.257	0.260	0.299
34.000	0.271	0.298	0.308	0.357
36.000	0.315	0.341	0.358	0.417
38.000	0.357	0.386	0.412	0.476
40.000	0.400	0.431	0.469	0.533
42.000	0.440	0.477	0.514	0.588
44.000	0.476	0.524	0.561	0.640
46.000	0.509	0.571	0.607	0.688
48.000	0.539	0.618	0.653	0.732
50.000	0.565	0.663	0.698	0.771
52.000	0.588	0.707	0.742	0.806
54.000	0.608	0.750	0.785	0.837
56.000	0.625	0.791	0.827	0.864
58.000	0.639	0.831	0.869	0.887
60.000	0.650	0.869	0.908	0.907
62.000	0.658	0.906	0.943	0.924
64.000	0.663	0.941	0.975	0.938
66.000	0.666	0.974	0.998	0.949
68.000	0.667	0.999	1.000	0.959
70.000	0.667	1.000	1.000	0.967
72.000	0.667	1.000	1.000	0.974
74.000	0.667	1.000	1.000	0.979
76.000	0.667	1.000	1.000	0.983
78.000	0.667	1.000	1.000	0.987
80.000	0.667	1.000	1.000	0.990
82.000	0.667	1.000	1.000	0.992
84.000	0.667	1.000	1.000	0.994
86.000	0.667	1.000	1.000	0.995
88.000	0.667	1.000	1.000	0.996

Figure 80b. Cumulative Distribution Data

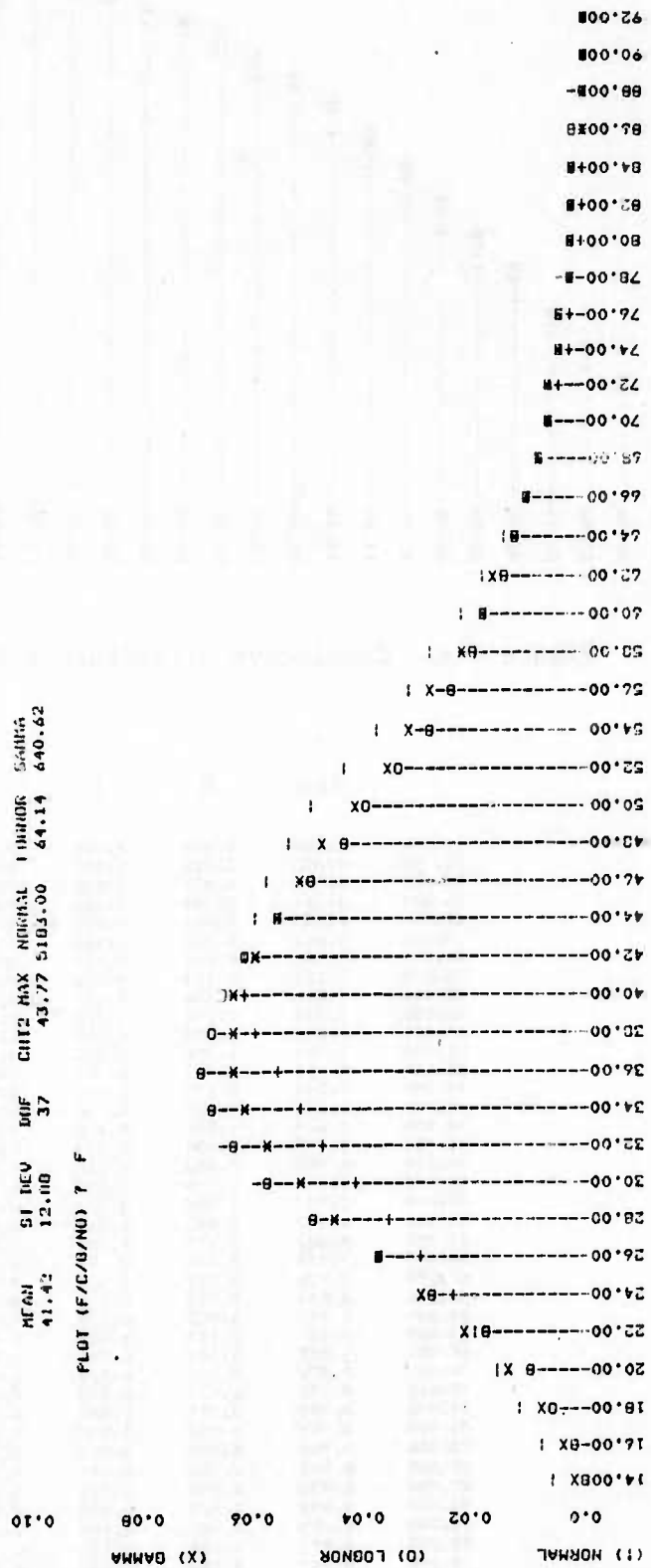


Figure 81. Histogram for Pack Ice (Homogeneous)

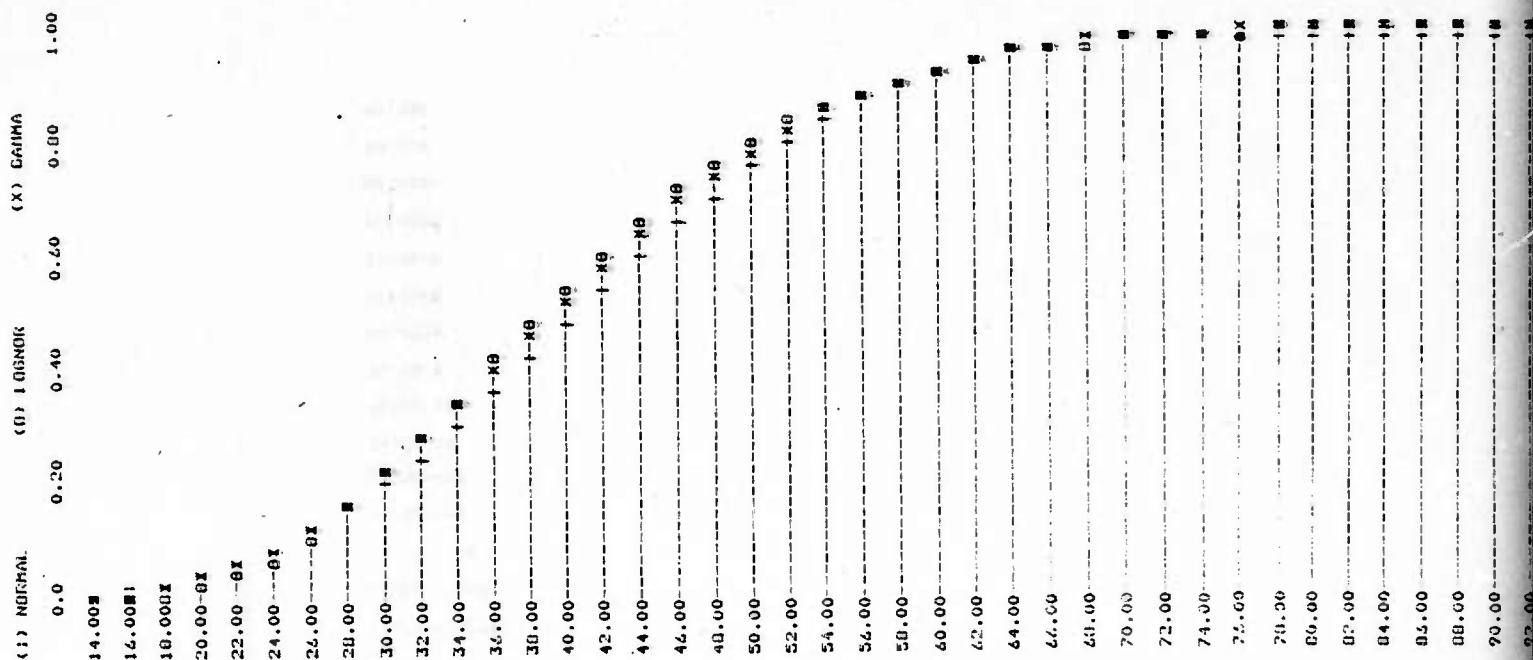


Figure 81a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
14.000	0.000	0.006	0.001	0.002
16.000	0.002	0.015	0.003	0.007
18.000	0.006	0.027	0.008	0.016
20.000	0.016	0.043	0.018	0.031
22.000	0.033	0.063	0.037	0.052
24.000	0.062	0.087	0.065	0.081
26.000	0.100	0.118	0.104	0.118
28.000	0.151	0.154	0.153	0.163
30.000	0.210	0.196	0.211	0.216
32.000	0.276	0.243	0.275	0.273
34.000	0.345	0.295	0.343	0.335
36.000	0.414	0.352	0.413	0.399
38.000	0.481	0.412	0.481	0.464
40.000	0.546	0.473	0.547	0.527
42.000	0.605	0.535	0.608	0.588
44.000	0.660	0.596	0.665	0.644
46.000	0.712	0.654	0.715	0.696
48.000	0.755	0.708	0.760	0.744
50.000	0.794	0.758	0.799	0.785
52.000	0.827	0.802	0.833	0.822
54.000	0.857	0.840	0.861	0.854
56.000	0.883	0.873	0.886	0.881
58.000	0.904	0.900	0.906	0.904
60.000	0.920	0.922	0.923	0.922
62.000	0.934	0.939	0.938	0.938
64.000	0.947	0.953	0.949	0.951
66.000	0.957	0.963	0.959	0.961
68.000	0.965	0.970	0.967	0.969
70.000	0.971	0.976	0.973	0.976
72.000	0.977	0.979	0.978	0.981
74.000	0.982	0.982	0.982	0.985
76.000	0.985	0.983	0.986	0.987
78.000	0.988	0.985	0.989	0.991
80.000	0.991	0.985	0.991	0.993
82.000	0.992	0.986	0.993	0.994
84.000	0.994	0.986	0.994	0.995
86.000	0.995	0.986	0.995	0.996
88.000	0.997	0.986	0.996	0.997
90.000	0.997	0.986	0.997	0.997
92.000	0.998	0.986	0.997	0.998

Figure 81b. Cumulative Distribution Data

MEAN 91.42 ST DEV 10.43 DOF 37 CHI2 MAX 43.77 NORMAL 2519.11 LOGNOR 27.56 GAMMA 97.46

(O) NORMAL (X) LOGNOR (X) GAMMA

0.10

0.08

0.06

0.04

0.02

0.0

197

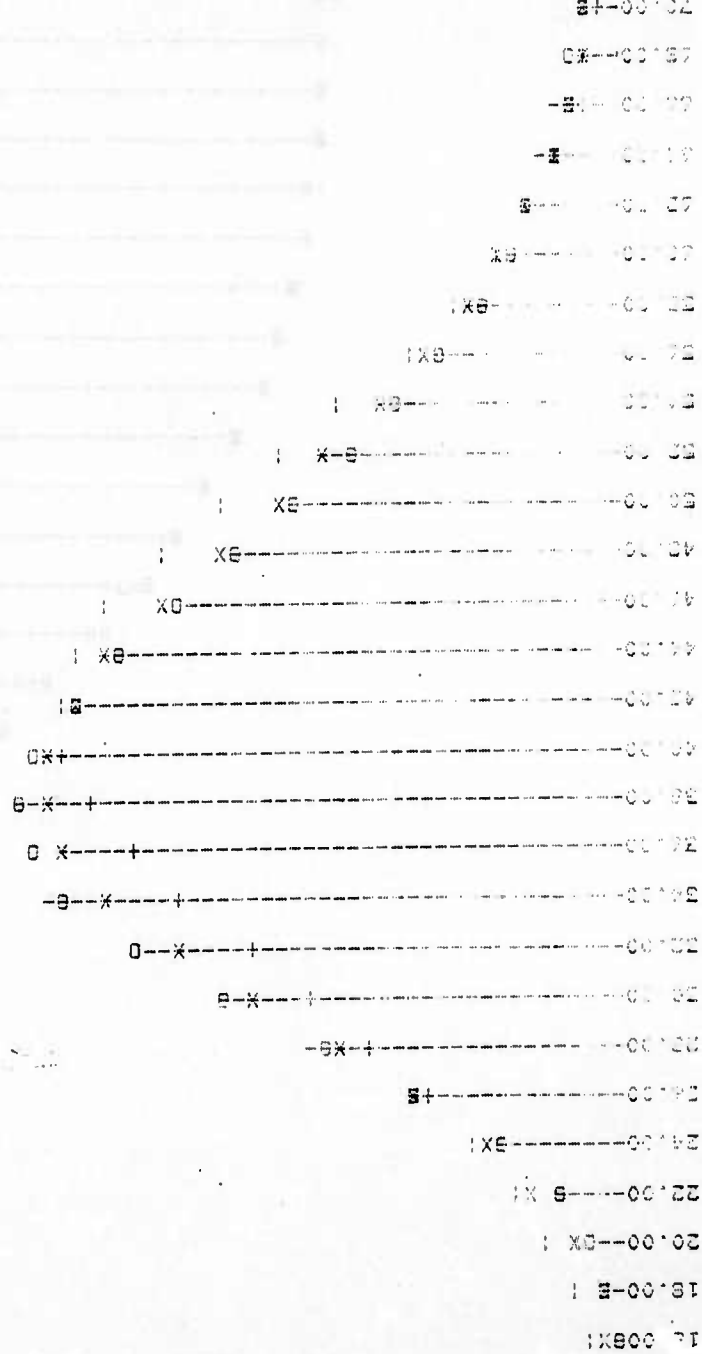


Figure 82. Histogram for Pack Ice (Homogeneous)

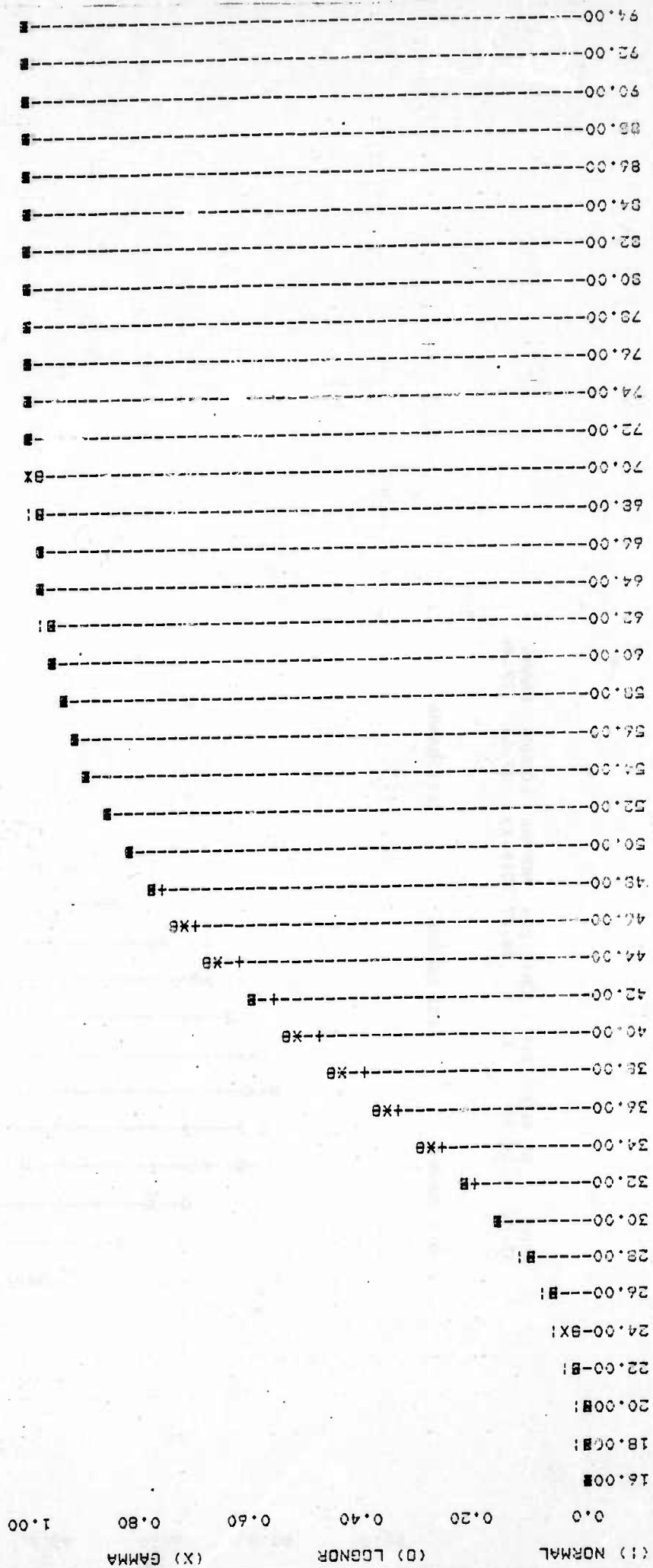


Figure 82. Cumulative Distribution for Pack Ice (Homogeneous)

	I. 2	N	L	G
16.00	0.000	0.004	0.000	0.001
18.00	0.002	0.010	0.001	0.004
20.00	0.004	0.020	0.005	0.010
22.00	0.013	0.033	0.012	0.021
24.00	0.029	0.053	0.029	0.039
26.00	0.056	0.078	0.056	0.067
28.00	0.098	0.112	0.097	0.106
30.00	0.151	0.154	0.152	0.157
32.00	0.215	0.205	0.217	0.217
34.00	0.294	0.264	0.290	0.287
36.00	0.371	0.331	0.374	0.362
38.00	0.453	0.403	0.453	0.440
40.00	0.530	0.478	0.532	0.517
42.00	0.602	0.554	0.605	0.592
44.00	0.672	0.628	0.670	0.661
46.00	0.730	0.697	0.732	0.723
48.00	0.782	0.759	0.782	0.778
50.00	0.825	0.814	0.825	0.825
52.00	0.864	0.860	0.861	0.864
54.00	0.896	0.897	0.894	0.896
56.00	0.919	0.926	0.919	0.921
58.00	0.939	0.947	0.938	0.941
60.00	0.954	0.963	0.954	0.957
62.00	0.965	0.974	0.965	0.968
64.00	0.974	0.982	0.974	0.977
66.00	0.982	0.987	0.981	0.984
68.00	0.986	0.990	0.987	0.988
70.00	0.989	0.992	0.989	0.992
72.00	0.992	0.993	0.992	0.994
74.00	0.995	0.993	0.995	0.996
76.00	0.997	0.994	0.997	0.997
78.00	0.997	0.994	0.998	0.998
80.00	0.998	0.994	0.998	0.998
82.00	0.999	0.994	0.999	0.999
84.00	0.999	0.994	0.999	0.999
86.00	0.999	0.994	1.000	0.999
88.00	1.000	0.994	1.000	0.999
90.00	1.000	0.994	1.000	0.999
92.00	1.000	0.994	1.000	1.000
94.00	1.000	0.994	1.000	1.000

Figure 82b. Cumulative Distribution Data

MEAN 41.37 ST DEV 6.05 DOF 37 CHI2 MAX 43.77 NORMAL 43.56 LOGNOR 104.96 GAMMA 70.41

0.0 0.02 0.04 0.06 0.08 0.10

(1) NORMAL

(0) LOGNOR

(X) GAMMA

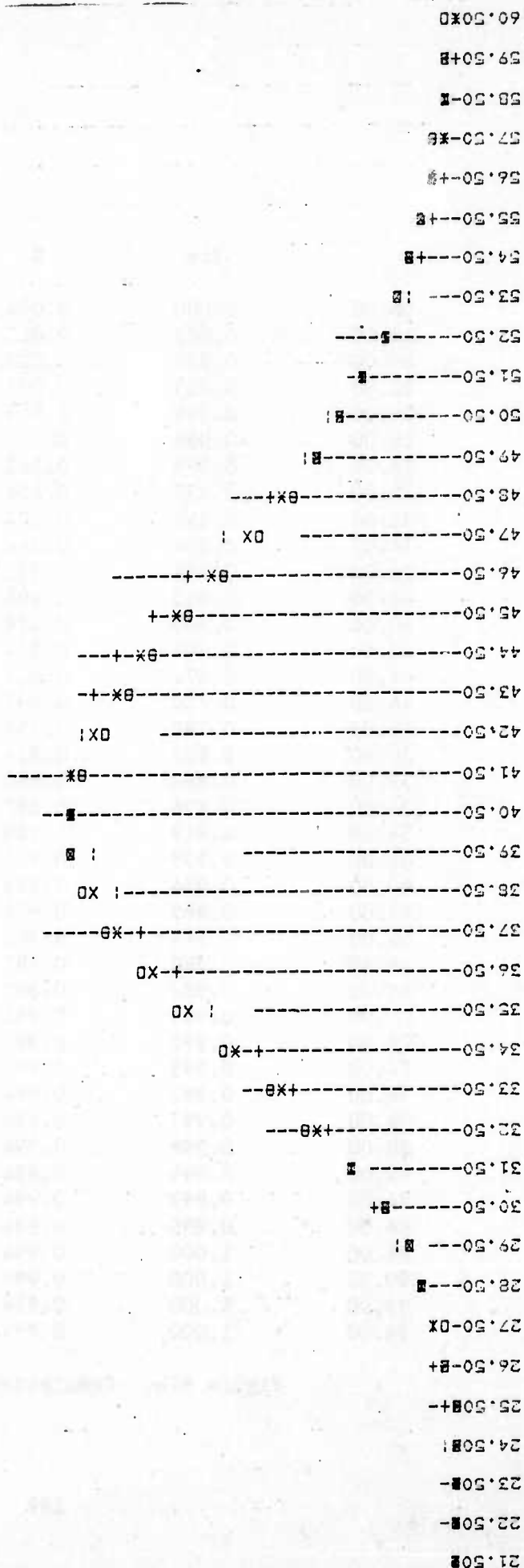
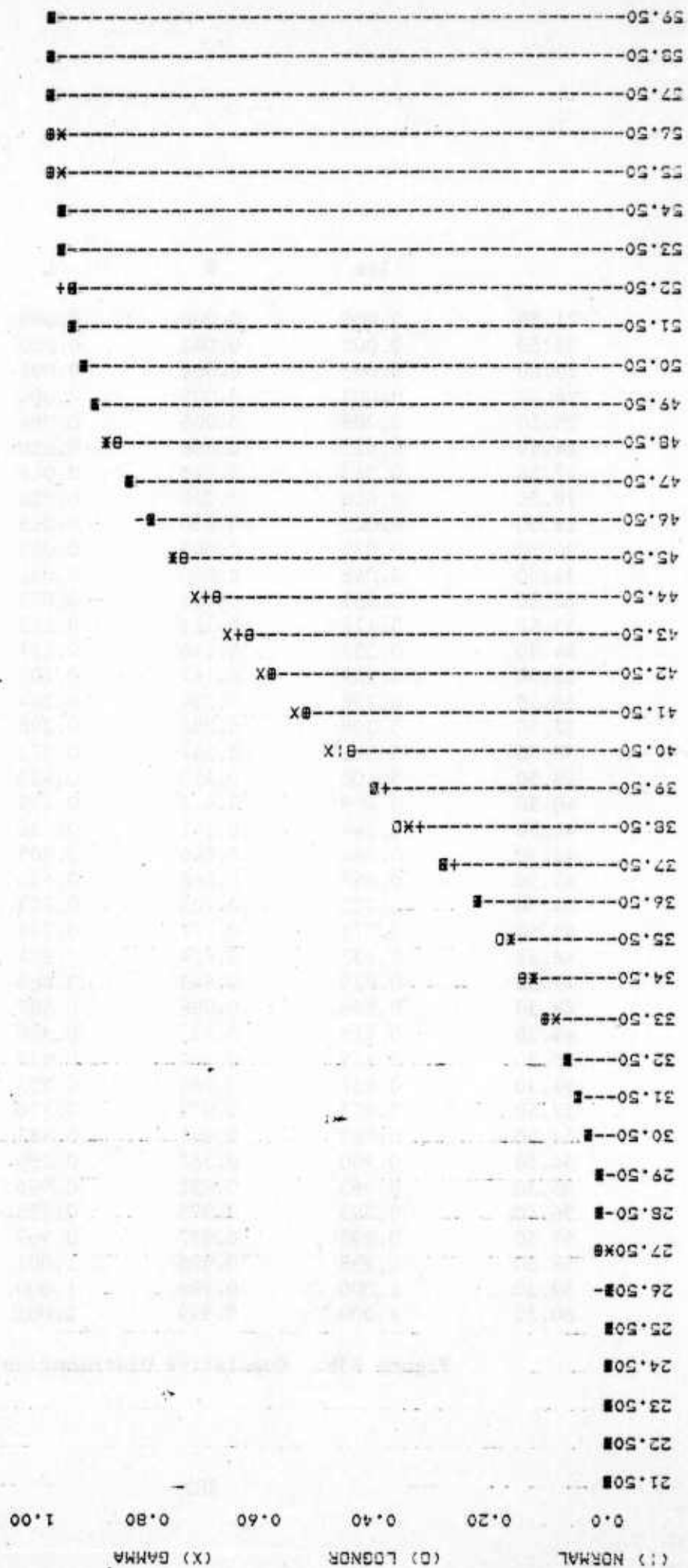


Figure 83. Histogram for Pack Ice (Homogeneous)



	Ice	N	L	G
21.50	0.000	0.000	0.000	0.000
22.50	0.002	0.001	0.000	0.000
23.50	0.003	0.002	0.002	0.000
24.50	0.003	0.003	0.004	0.001
25.50	0.008	0.005	0.004	0.002
26.50	0.013	0.008	0.010	0.004
27.50	0.013	0.013	0.016	0.007
28.50	0.016	0.020	0.018	0.012
29.50	0.020	0.030	0.025	0.021
30.50	0.033	0.043	0.033	0.033
31.50	0.048	0.060	0.051	0.051
32.50	0.081	0.083	0.073	0.075
33.50	0.117	0.111	0.113	0.105
34.50	0.155	0.146	0.157	0.144
35.50	0.189	0.187	0.202	0.189
36.50	0.238	0.234	0.244	0.241
37.50	0.308	0.288	0.298	0.300
38.50	0.363	0.347	0.371	0.363
39.50	0.400	0.410	0.429	0.428
40.50	0.469	0.475	0.465	0.495
41.50	0.544	0.541	0.532	0.560
42.50	0.594	0.606	0.605	0.623
43.50	0.658	0.668	0.650	0.682
44.50	0.722	0.725	0.709	0.736
45.50	0.775	0.777	0.768	0.784
46.50	0.832	0.824	0.814	0.826
47.50	0.859	0.863	0.866	0.862
48.50	0.896	0.896	0.887	0.892
49.50	0.919	0.923	0.920	0.917
50.50	0.939	0.944	0.939	0.937
51.50	0.957	0.960	0.955	0.953
52.50	0.977	0.972	0.970	0.965
53.50	0.982	0.981	0.987	0.975
54.50	0.990	0.987	0.990	0.982
55.50	0.993	0.992	0.996	0.987
56.50	0.995	0.995	0.998	0.991
57.50	0.998	0.997	0.999	0.994
58.50	0.998	0.998	1.001	0.996
59.50	1.000	0.999	1.000	0.997
60.50	1.000	0.999	1.001	0.998

Figure 83b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
40.89	5.64	12	21.03	7.52	20.69	14.73

(1) NORMAL

(0) LOGNOR

(X) GAMMA

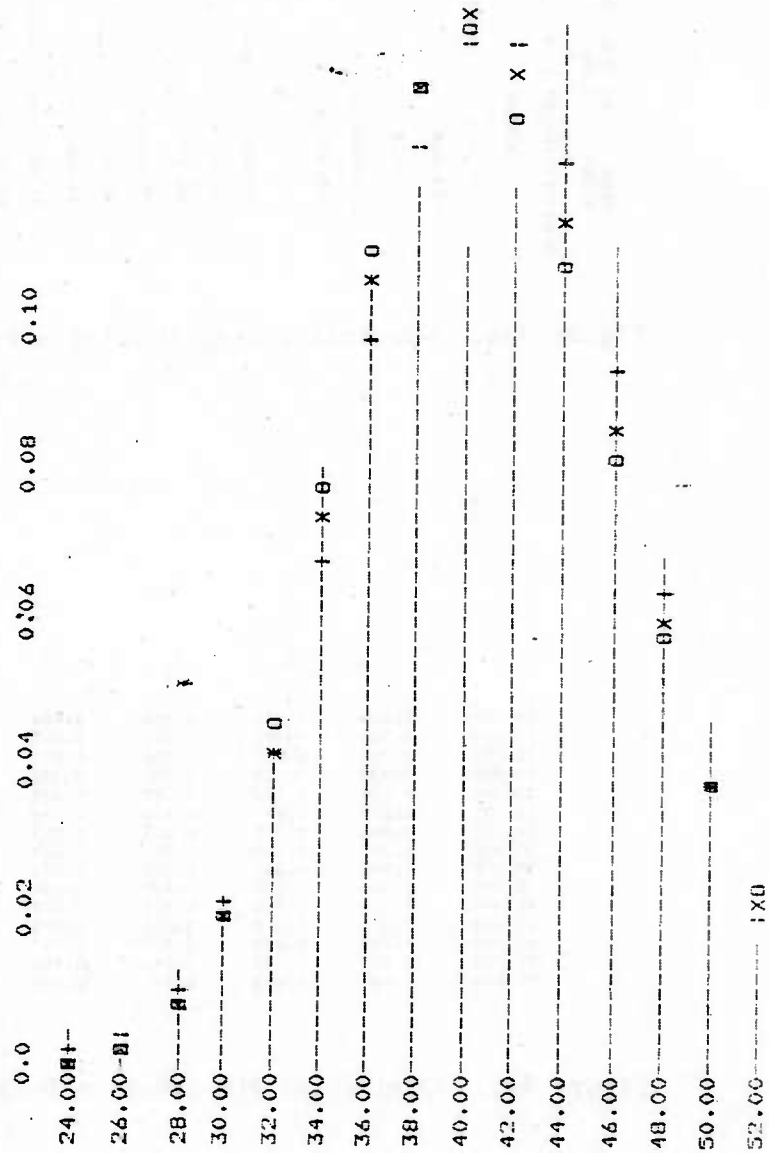


Figure 84. Histogram for Pack Ice (1/2 R Lead)

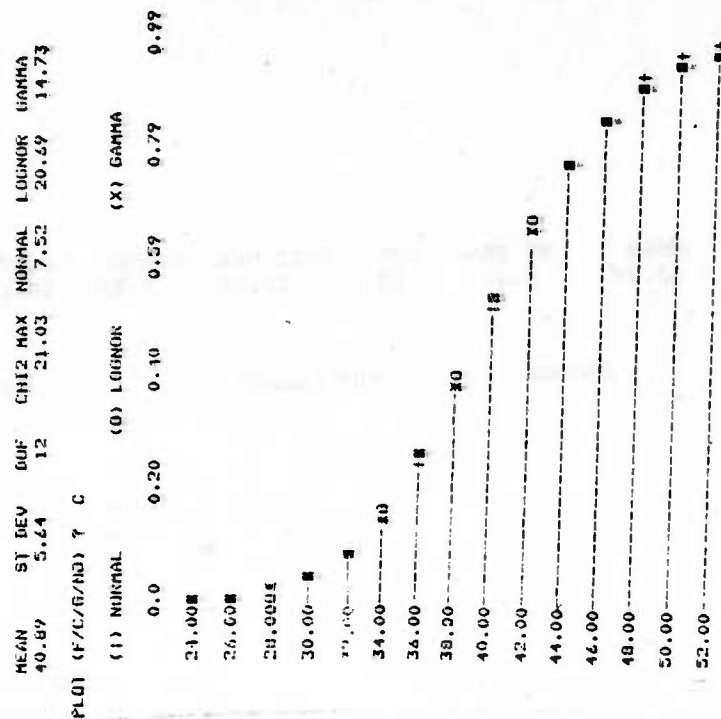


Figure 84a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
24.000	0.004	0.002	0.000	0.000
26.000	0.004	0.004	0.002	0.003
28.000	0.015	0.017	0.009	0.010
30.000	0.039	0.039	0.030	0.031
32.000	0.080	0.080	0.075	0.073
34.000	0.159	0.148	0.153	0.144
36.000	0.265	0.245	0.263	0.253
38.000	0.383	0.368	0.396	0.384
40.000	0.492	0.507	0.535	0.526
42.000	0.610	0.645	0.664	0.660
44.000	0.750	0.766	0.771	0.774
46.000	0.850	0.860	0.853	0.860
48.000	0.929	0.924	0.910	0.919
50.000	0.973	0.963	0.943	0.956
52.000	0.989	0.983	0.971	0.978

Figure 84b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.38	5.22	10	18.31	10.58	19.52	16.30

(1) NORMAL

(0) LOGNOR

(X) GAMMA

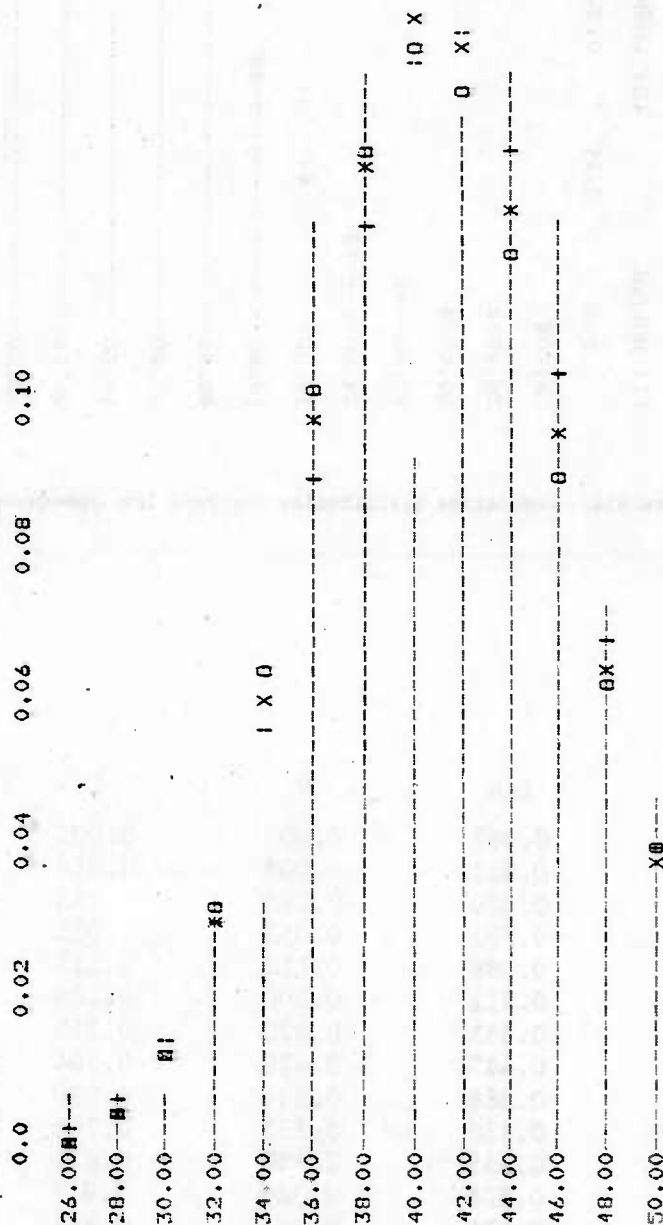


Figure 85. Histogram for Pack Ice (Homogeneous)

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.38	5.22	10	18.31	10.58	19.52	16.30

(1) NORMAL

(0) LOGNOR

(X) GAMMA

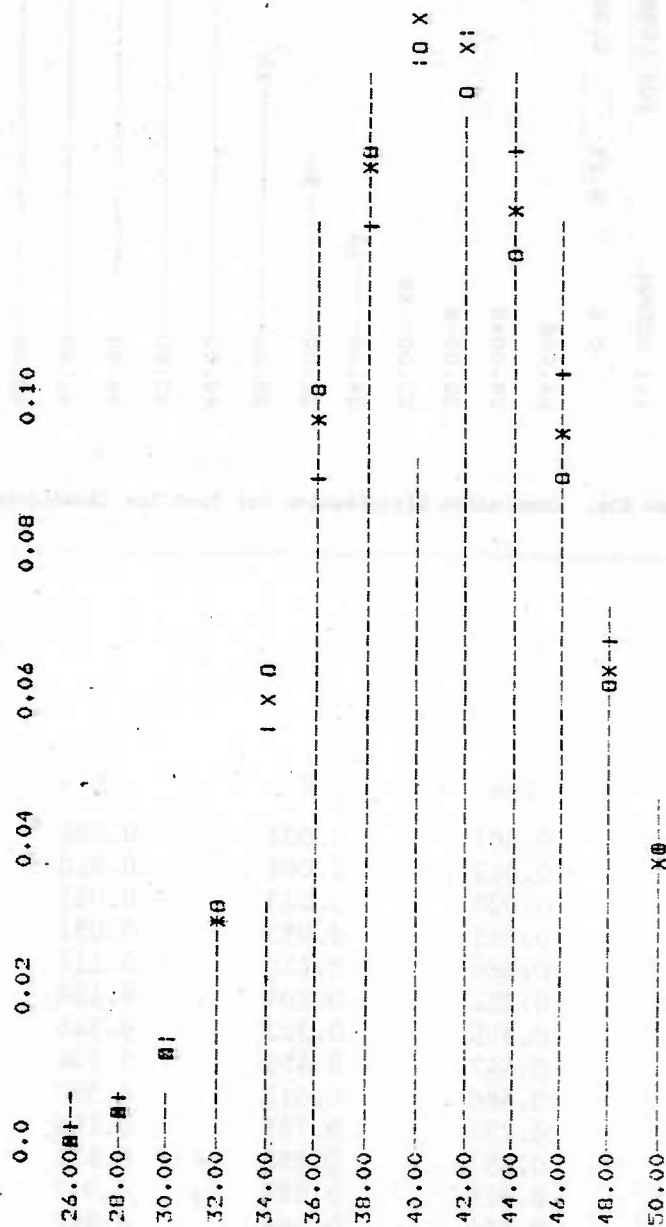


Figure 85. Histogram for Pack Ice (Homogeneous)

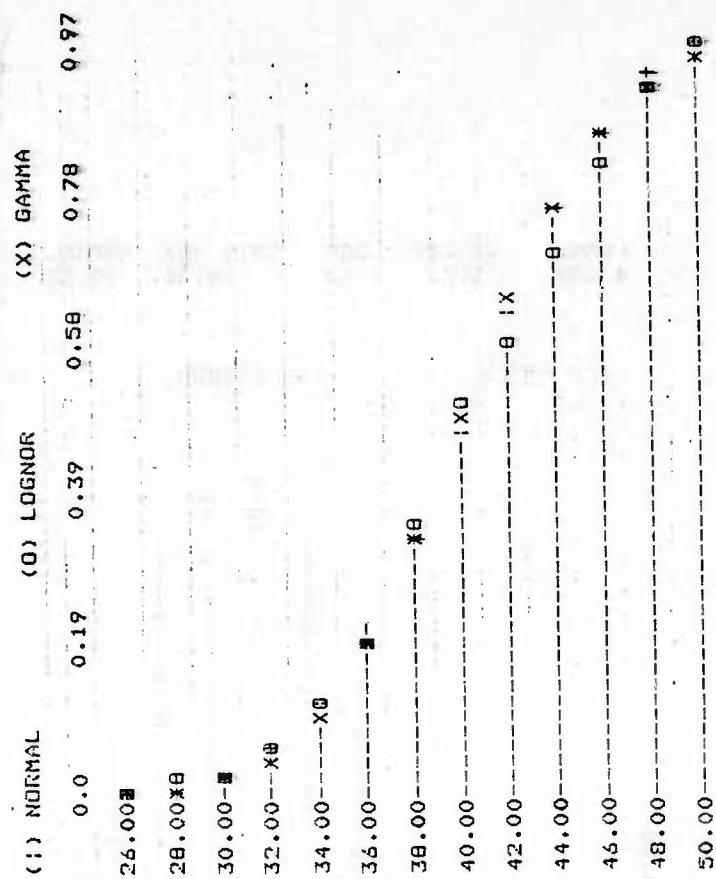


Figure 85a. Cumulative Distribution for Pack Ice (Homogeneous)

	Ice	N	L	G
26.00	0.007	0.002	0.001	0.001
28.00	0.013	0.008	0.010	0.004
30.00	0.020	0.023	0.025	0.016
32.00	0.053	0.053	0.051	0.046
34.00	0.086	0.110	0.117	0.106
36.00	0.211	0.200	0.188	0.204
38.00	0.355	0.323	0.345	0.336
40.00	0.447	0.470	0.504	0.487
42.00	0.586	0.621	0.590	0.636
44.00	0.730	0.755	0.706	0.763
46.00	0.855	0.858	0.821	0.858
48.00	0.928	0.927	0.917	0.922
50.00	0.974	0.966	0.967	0.960

Figure 85b. Cumulative Distribution Data

MEAN 38.12 ST DEV 14.77 DOF 37 CHI2 MAX 43.7723075.54 NORMAL LOGNOR GAMMA 1351.44 2913.78

0.10 0.08 0.06 0.04 0.02 0.0

207

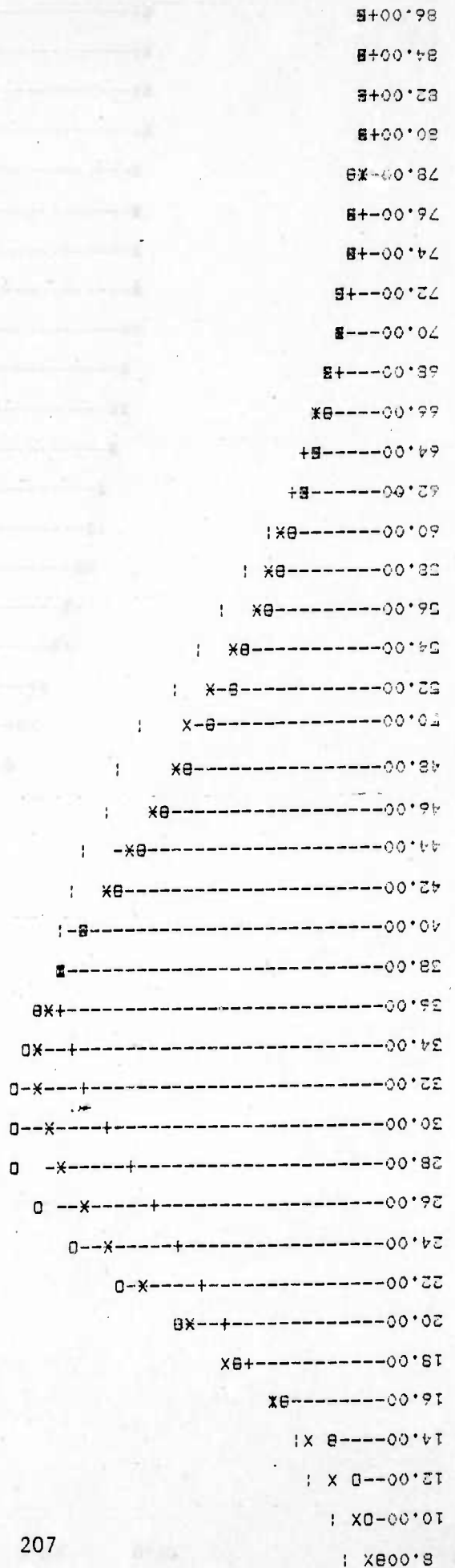


Figure 86. Histogram for Pack Ice (1/2 R Lead)

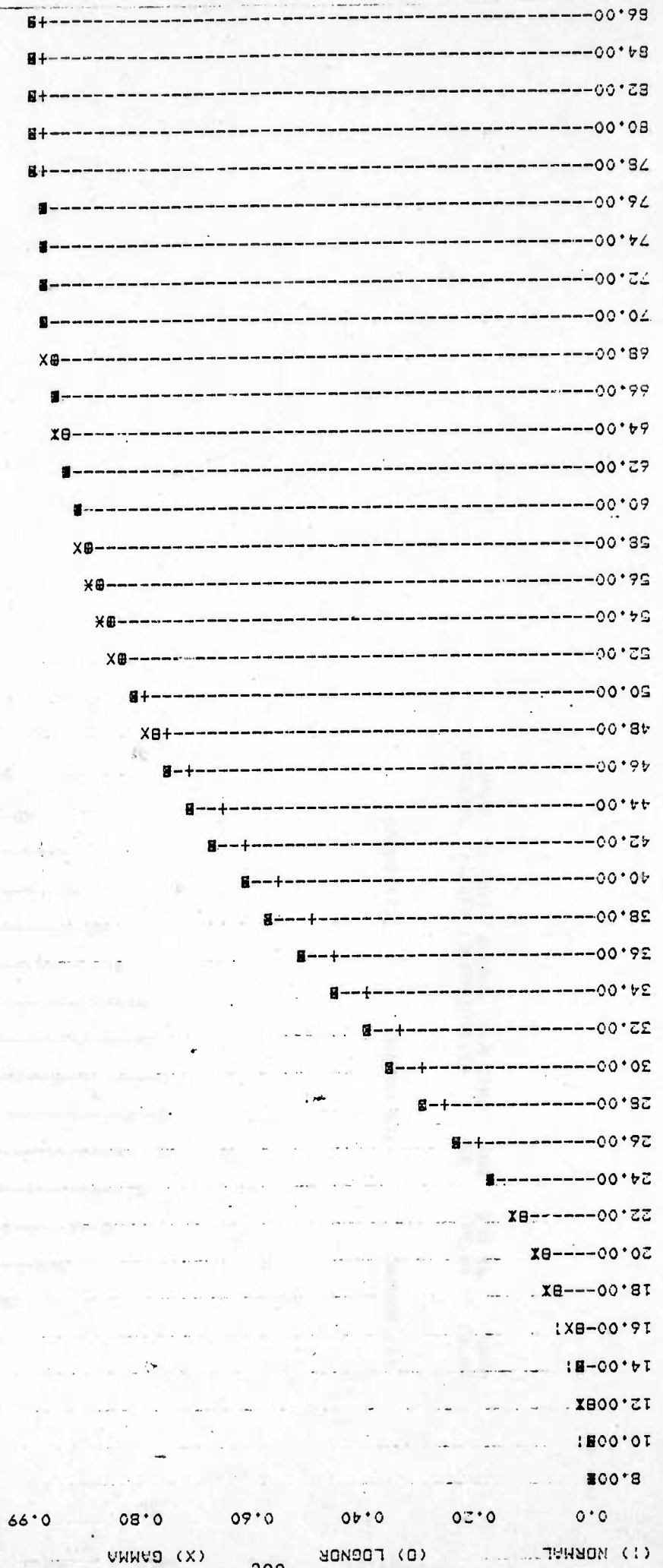


Figure 86a. Cumulative Distribution for Pack Ice (1/2 R Lead)

() NORMAL (X) LOGNOR (X) GAMMA

	Ice	N	L	G
0.000	0.000	0.007	0.000	0.002
10.000	0.000	0.016	0.001	0.005
12.000	0.003	0.027	0.005	0.013
14.000	0.010	0.041	0.013	0.025
16.000	0.027	0.057	0.029	0.044
18.000	0.051	0.080	0.053	0.070
20.000	0.085	0.106	0.088	0.103
22.000	0.127	0.135	0.132	0.142
24.000	0.177	0.170	0.183	0.188
26.000	0.230	0.208	0.241	0.239
28.000	0.286	0.251	0.302	0.293
30.000	0.345	0.297	0.365	0.350
32.000	0.405	0.347	0.427	0.400
34.000	0.463	0.399	0.487	0.465
36.000	0.520	0.452	0.545	0.521
38.000	0.572	0.506	0.598	0.574
40.000	0.623	0.560	0.647	0.625
42.000	0.669	0.612	0.692	0.672
44.000	0.712	0.662	0.732	0.715
46.000	0.750	0.709	0.768	0.754
48.000	0.785	0.752	0.800	0.789
50.000	0.815	0.791	0.827	0.820
52.000	0.842	0.826	0.852	0.847
54.000	0.866	0.856	0.873	0.871
56.000	0.886	0.882	0.891	0.892
58.000	0.904	0.904	0.907	0.909
60.000	0.919	0.922	0.920	0.925
62.000	0.933	0.936	0.932	0.938
64.000	0.944	0.948	0.942	0.948
66.000	0.954	0.957	0.951	0.958
68.000	0.962	0.964	0.958	0.965
70.000	0.968	0.969	0.964	0.972
72.000	0.974	0.973	0.969	0.977
74.000	0.978	0.976	0.974	0.981
76.000	0.982	0.978	0.978	0.985
78.000	0.985	0.980	0.981	0.988
80.000	0.988	0.981	0.981	0.990
82.000	0.990	0.981	0.986	0.992
84.000	0.992	0.982	0.988	0.993
86.000	0.994	0.982	0.990	0.995

Figure 86b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
37.70	8.33	15	25.00	107.47	155.01	163.40

() NORMAL

(O) LOGNOR

(X) GAMMA

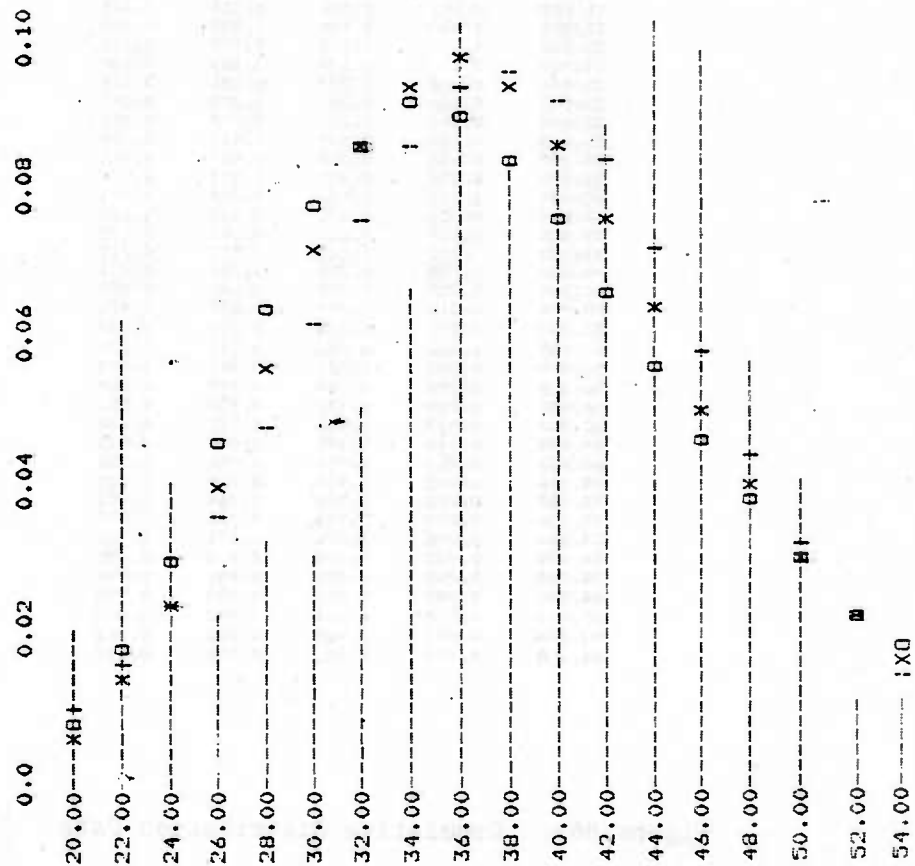


Figure 87. Histogram for Pack Ice (1/2 R Lead)

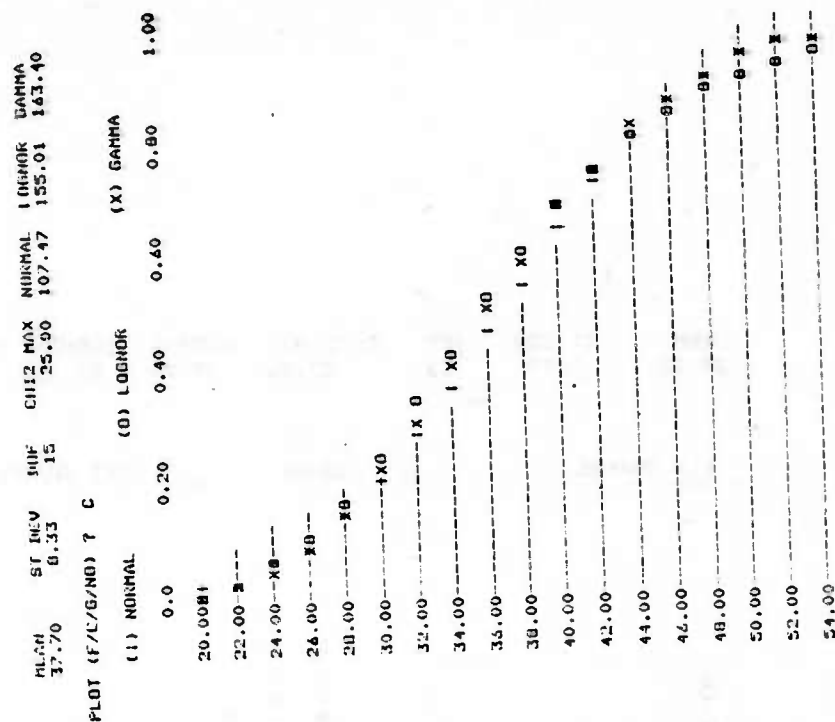


Figure 87a. Cumulative Distribution for Pack Ice

	Ice	N	L	G
20.000	0.020	0.010	0.008	0.006
22.000	0.062	0.026	0.025	0.020
24.000	0.123	0.051	0.055	0.045
26.000	0.145	0.087	0.102	0.084
28.000	0.177	0.136	0.166	0.141
30.000	0.207	0.198	0.243	0.213
32.000	0.257	0.274	0.330	0.300
34.000	0.323	0.360	0.421	0.395
36.000	0.405	0.454	0.511	0.492
38.000	0.509	0.549	0.596	0.587
40.000	0.595	0.641	0.672	0.673
42.000	0.684	0.725	0.738	0.749
44.000	0.784	0.797	0.807	0.812
46.000	0.884	0.855	0.841	0.843
48.000	0.941	0.900	0.878	0.902
50.000	0.982	0.932	0.907	0.931
52.000	0.991	0.954	0.930	0.953
54.000	1.000	0.969	0.947	0.968

Figure 87b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
37.12	7.97	13	22.36	37.94	51.19	53.50

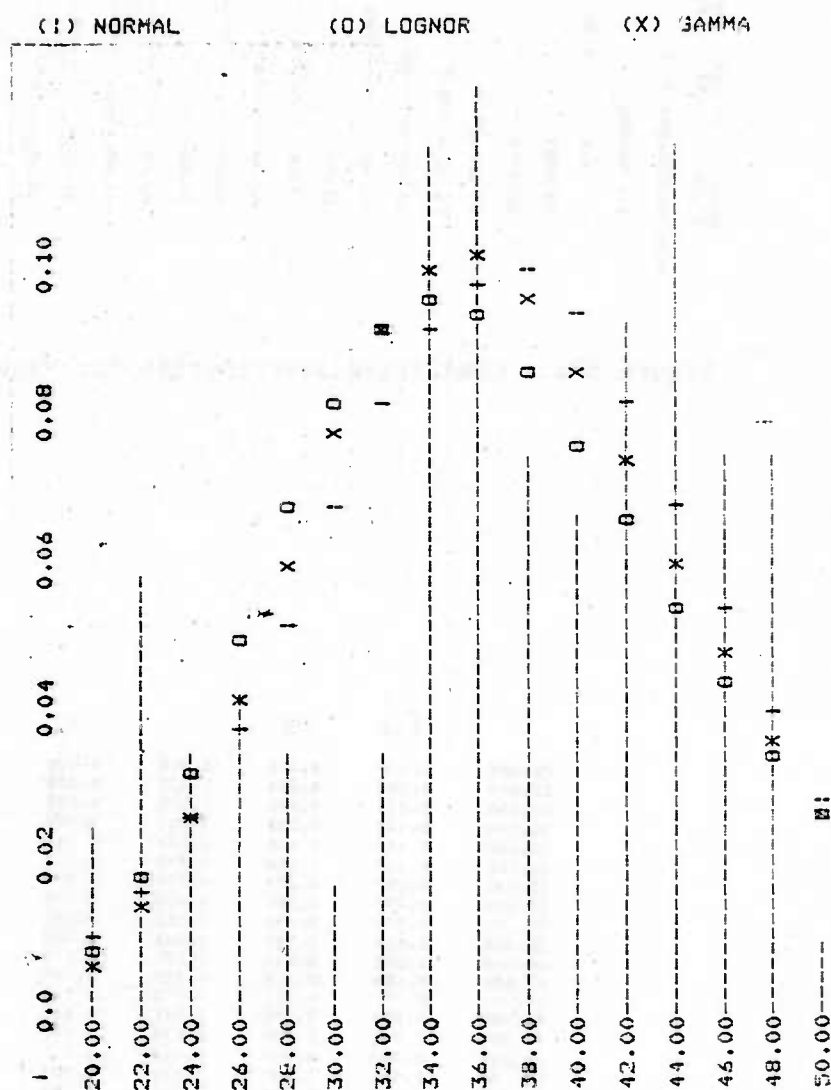


Figure 88. Histogram for Mountain

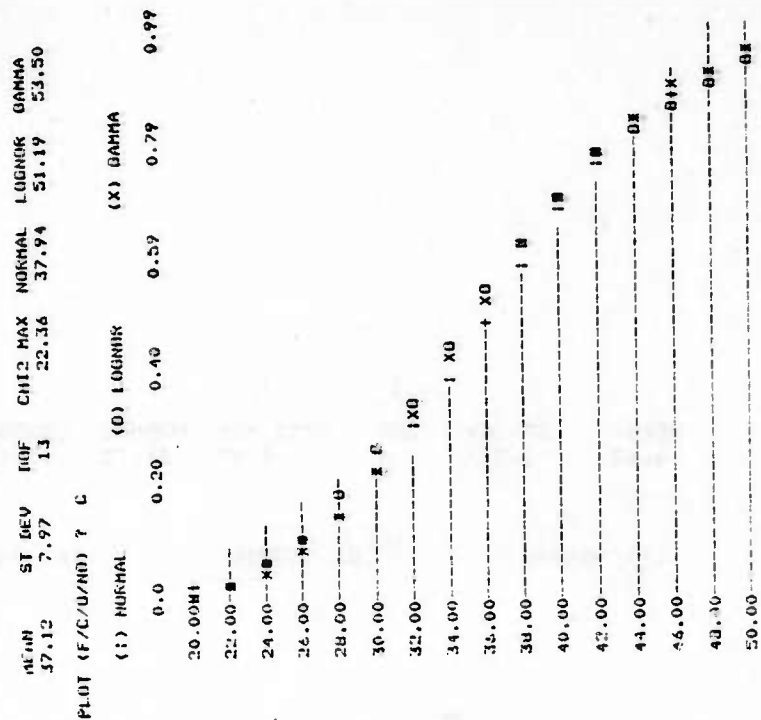


Figure 88a. Cumulative Distribution for Mountain

	Mountain	N	L	G
20.000	0.025	0.010	0.008	0.006
22.000	0.083	0.027	0.025	0.020
24.000	0.117	0.053	0.057	0.046
26.000	0.150	0.091	0.106	0.080
28.000	0.183	0.147	0.173	0.128
30.000	0.208	0.210	0.250	0.183
32.000	0.242	0.291	0.347	0.249
34.000	0.350	0.381	0.440	0.318
36.000	0.483	0.482	0.535	0.389
38.000	0.558	0.582	0.622	0.466
40.000	0.625	0.675	0.698	0.540
42.000	0.717	0.758	0.764	0.617
44.000	0.833	0.827	0.818	0.697
46.000	0.908	0.881	0.862	0.777
48.000	0.983	0.921	0.896	0.857
50.000	0.992	0.948	0.923	0.937

Figure 88b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.63	2.21	4	9.49	39.72	15.43	16.72

(1) NORMAL

(0) LOGNOR

(X) GAMMA

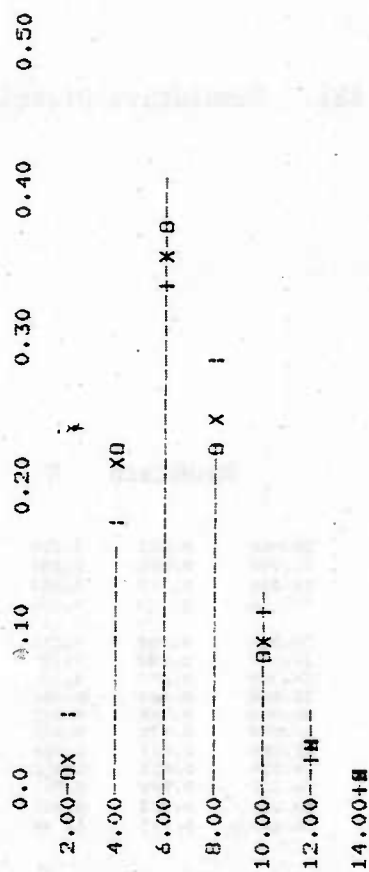


Figure 89. Histogram for City

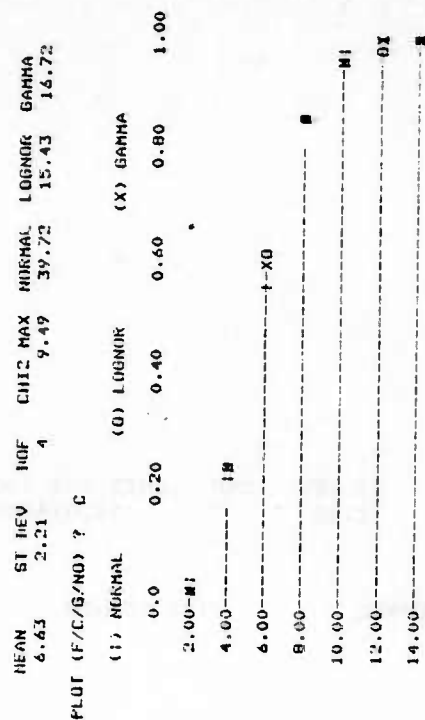


Figure 89a. Cumulative Distribution for Field A

	Field			
	A	N	L	G
2.00	0.004	0.045	0.013	0.024
4.00	0.163	0.225	0.247	0.244
6.00	0.572	0.561	0.628	0.608
8.00	0.805	0.852	0.860	0.858
10.00	0.938	0.970	0.954	0.961
12.00	0.988	0.992	0.986	0.991
14.00	1.000	0.994	0.996	0.998

Figure 89b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.68	2.36	7	14.0740447.06		115.00	186.47

(.) NORMAL

(O) LOGNOR

(X) GAMMA

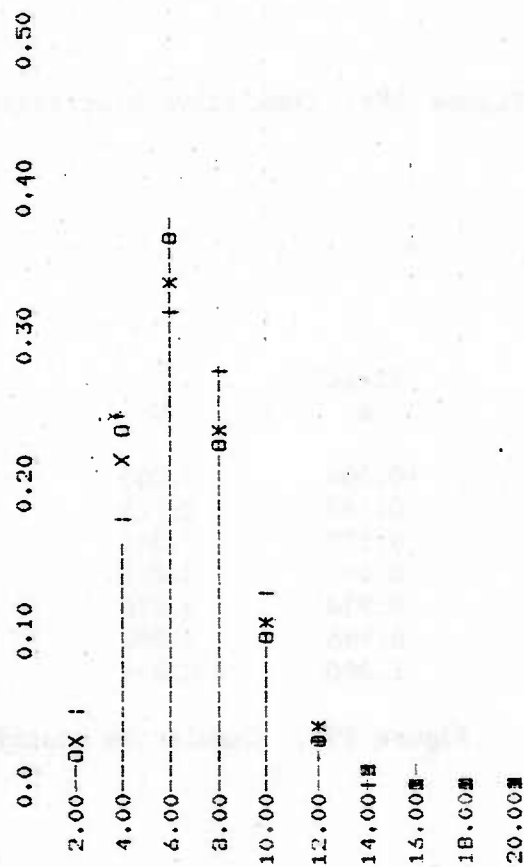


Figure 90. Histogram for City

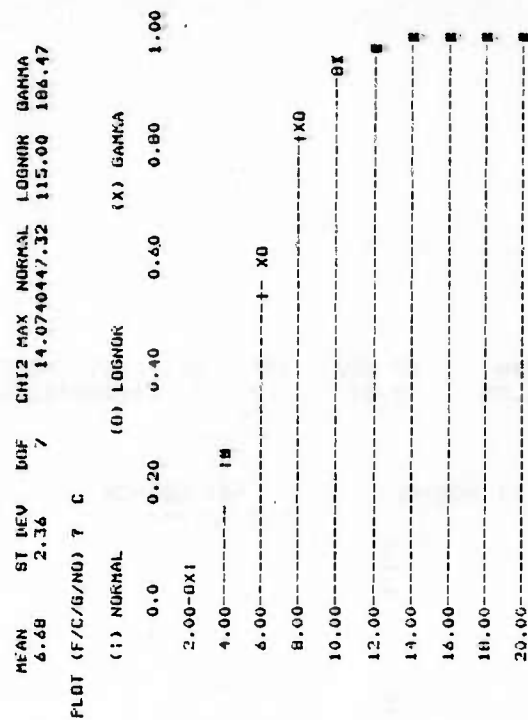


Figure 90a. Cumulative Distribution for City

	City	N	L	G
2.000	0.005	0.052	0.015	0.031
4.000	0.138	0.230	0.251	0.254
6.000	0.553	0.546	0.621	0.599
8.000	0.828	0.829	0.850	0.842
10.000	0.938	0.938	0.948	0.950
12.000	0.974	0.988	0.982	0.987
14.000	0.991	0.992	0.994	0.997
16.000	0.996	0.992	0.998	0.999
18.000	0.999	0.992	0.999	1.000
20.000	1.000	0.992	1.000	1.000

Figure 90b. Cumulative Distribution Data

MEAN	ST DEV.	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
6.73	2.50	7	14.0749	427.38	525.84	791.22

(1) NORMAL

(0) LOGNOR

(X) GAMMA

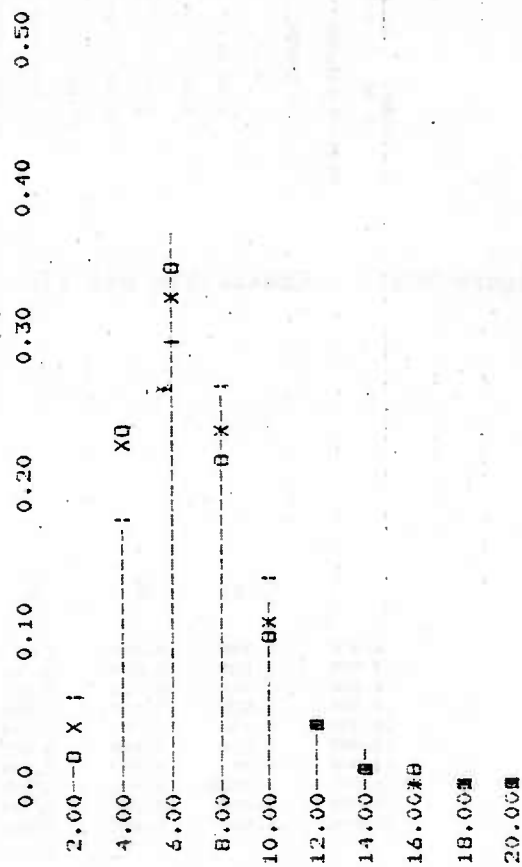


Figure 91. Histogram for City

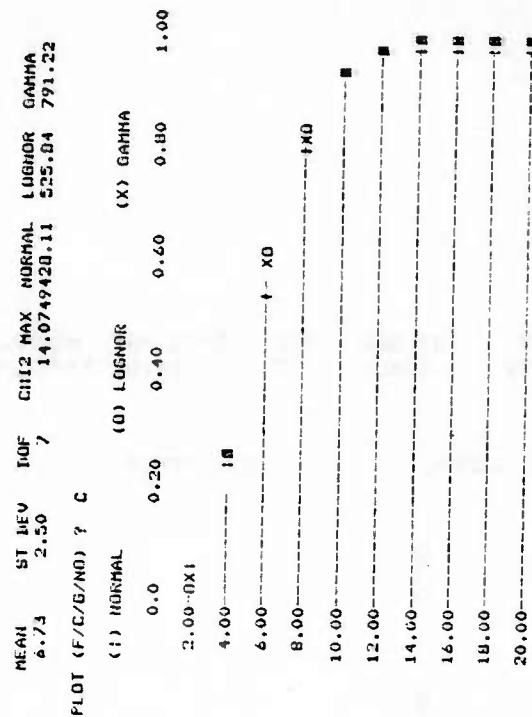


Figure 91a. Cumulative Distribution for City

	City	N	L	G
2.000	0.009	0.057	0.020	0.037
4.000	0.177	0.233	0.261	0.262
6.000	0.550	0.531	0.613	0.590
8.000	0.811	0.806	0.836	0.827
10.000	0.927	0.945	0.937	0.940
12.000	0.971	0.983	0.977	0.982
14.000	0.980	0.989	0.991	0.995
16.000	0.996	0.989	0.997	0.999
18.000	0.998	0.989	0.999	1.000
20.000	1.000	0.989	1.000	1.000

Figure 91b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
7.30	3.46	7	14.07	5948.25	1049.39	1501.49

(1) NORMAL

(3) LOGNOR

(X) GAMMA

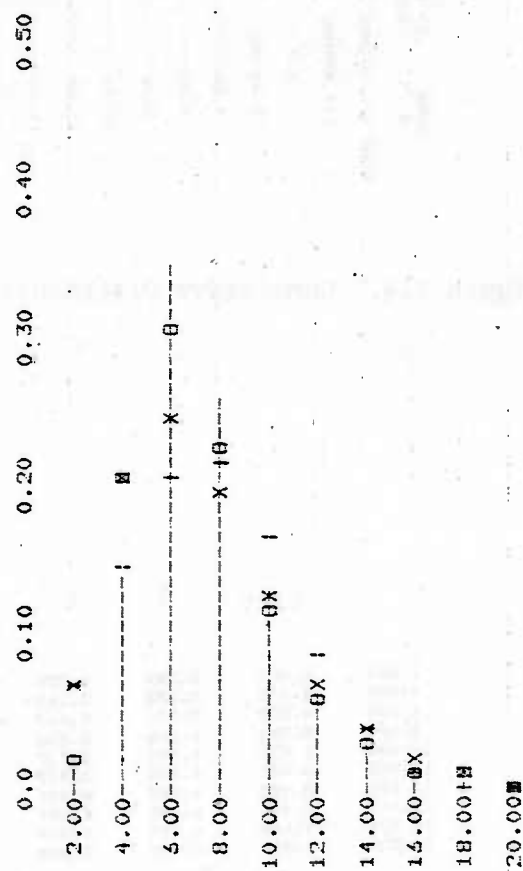


Figure 92. Histogram for City

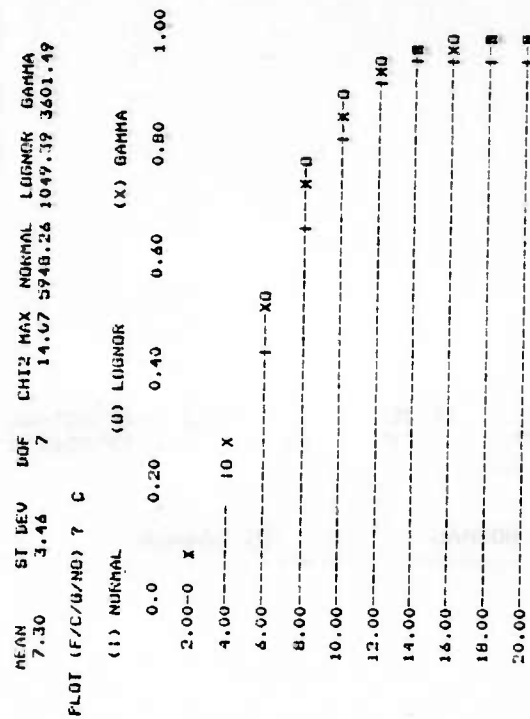


Figure 92a. Cumulative Distribution for City

	City	N	L	G
2.000	0.007	0.073	0.022	0.070
4.000	0.151	0.219	0.230	0.278
6.000	0.497	0.431	0.542	0.527
8.000	0.740	0.654	0.770	0.729
10.000	0.885	0.823	0.893	0.859
12.000	0.942	0.916	0.952	0.931
14.000	0.968	0.952	0.978	0.968
16.000	0.981	0.963	0.990	0.985
18.000	0.998	0.965	0.996	0.993
20.000	0.992	0.965	0.998	0.996

Figure 92b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.79	7.05	17	27.5957551.11	3946.6624670.05		

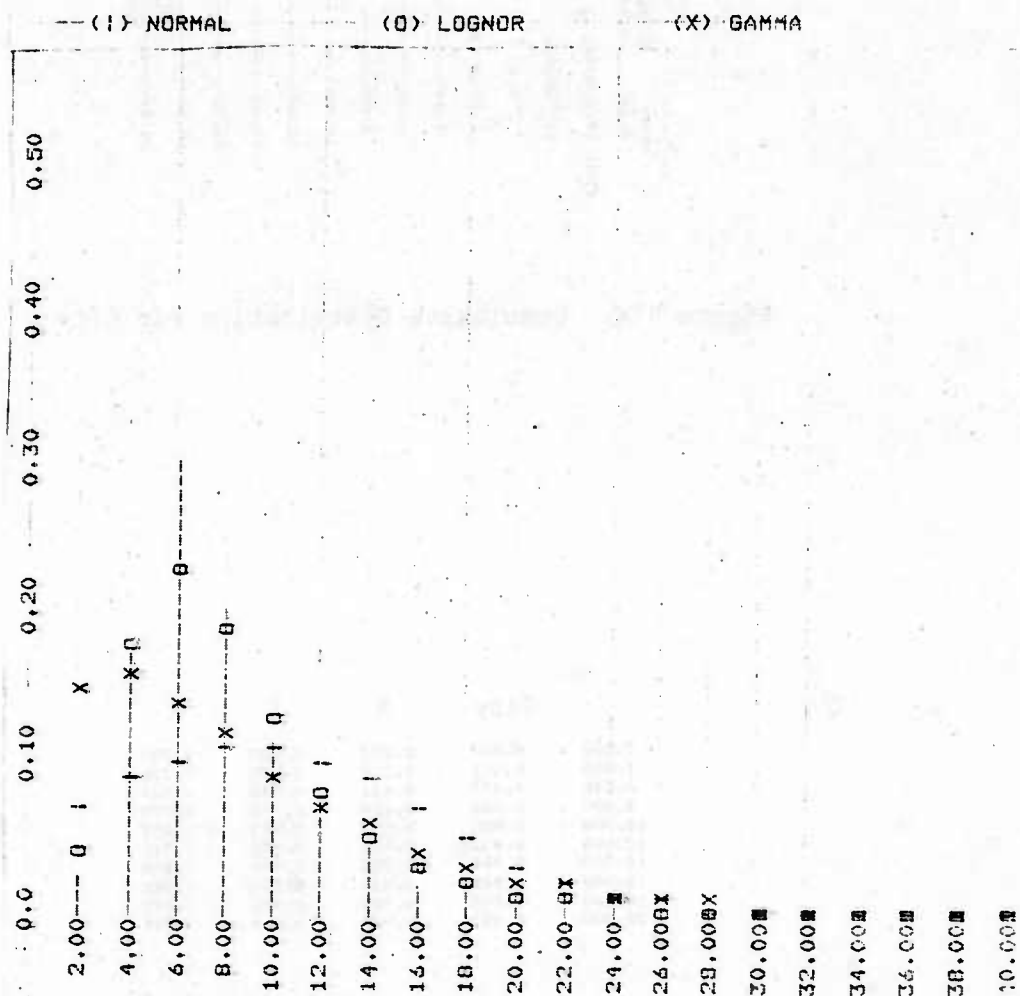


Figure 93. Histogram for City

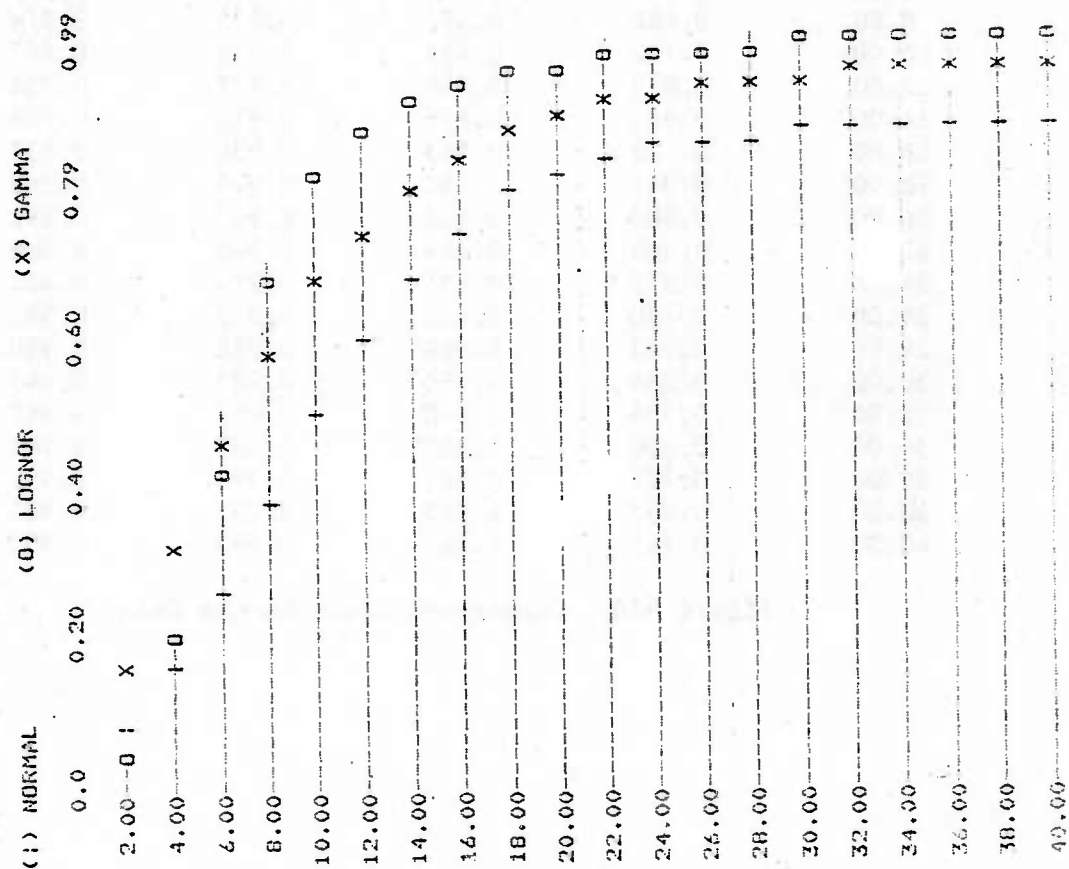


Figure 93a. Cumulative Distribution for City

	City	N	L	G
2.00	0.018	0.071	0.041	0.153
4.00	0.185	0.161	0.199	0.314
6.00	0.488	0.265	0.413	0.456
8.00	0.686	0.377	0.675	0.574
10.00	0.792	0.489	0.816	0.667
12.00	0.858	0.590	0.877	0.739
14.00	0.901	0.676	0.912	0.795
16.00	0.928	0.743	0.934	0.837
18.00	0.947	0.792	0.949	0.868
20.00	0.960	0.824	0.960	0.892
22.00	0.968	0.844	0.968	0.909
24.00	0.975	0.855	0.974	0.922
26.00	0.980	0.861	0.979	0.931
28.00	0.983	0.863	0.982	0.938
30.00	0.986	0.865	0.985	0.943
32.00	0.988	0.865	0.987	0.947
34.00	0.990	0.865	0.989	0.949
36.00	0.991	0.865	0.990	0.951
38.00	0.992	0.865	0.992	0.952
40.00	0.993	0.865	0.993	0.953

Figure 93b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.77	6.54	17	27.5921	1218.76	1537.78	4778.17

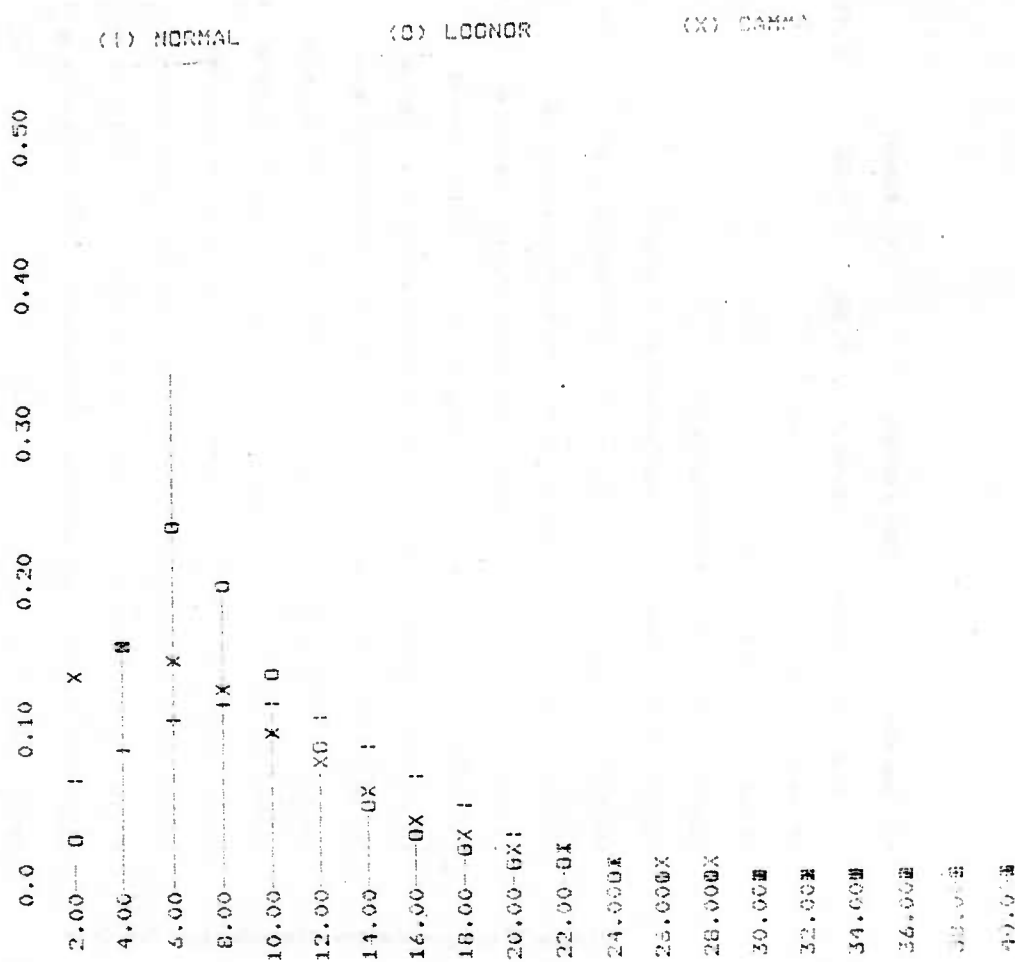


Figure 94. Histogram for City

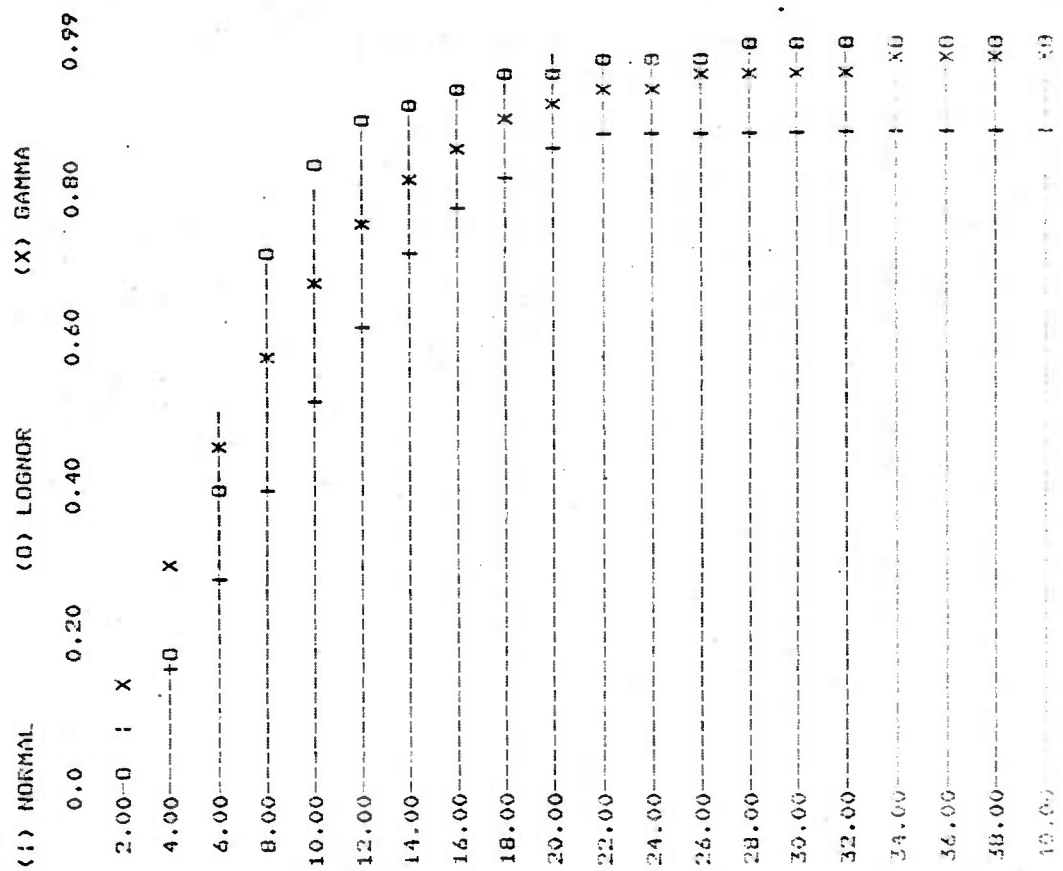


Figure 94a. Cumulative Distribution for City

	City	N	L	G
2.00	0.006	0.071	0.027	0.140
4.00	0.162	0.165	0.171	0.304
6.00	0.503	0.276	0.401	0.455
8.00	0.688	0.396	0.707	0.582
10.00	0.798	0.516	0.830	0.683
12.00	0.866	0.623	0.887	0.760
14.00	0.908	0.712	0.920	0.818
16.00	0.935	0.778	0.940	0.861
18.00	0.952	0.823	0.954	0.892
20.00	0.964	0.852	0.964	0.915
22.00	0.973	0.868	0.971	0.931
24.00	0.979	0.876	0.977	0.942
26.00	0.983	0.880	0.982	0.951
28.00	0.986	0.881	0.985	0.956
30.00	0.988	0.882	0.987	0.960
32.00	0.990	0.882	0.988	0.963
34.00	0.992	0.882	0.991	0.965
36.00	0.992	0.882	0.992	0.966
38.00	0.993	0.882	0.992	0.967
40.00	0.994	0.882	0.993	0.968

Figure 94b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.65	4.69	17	27.59*****	166.21	274.37	

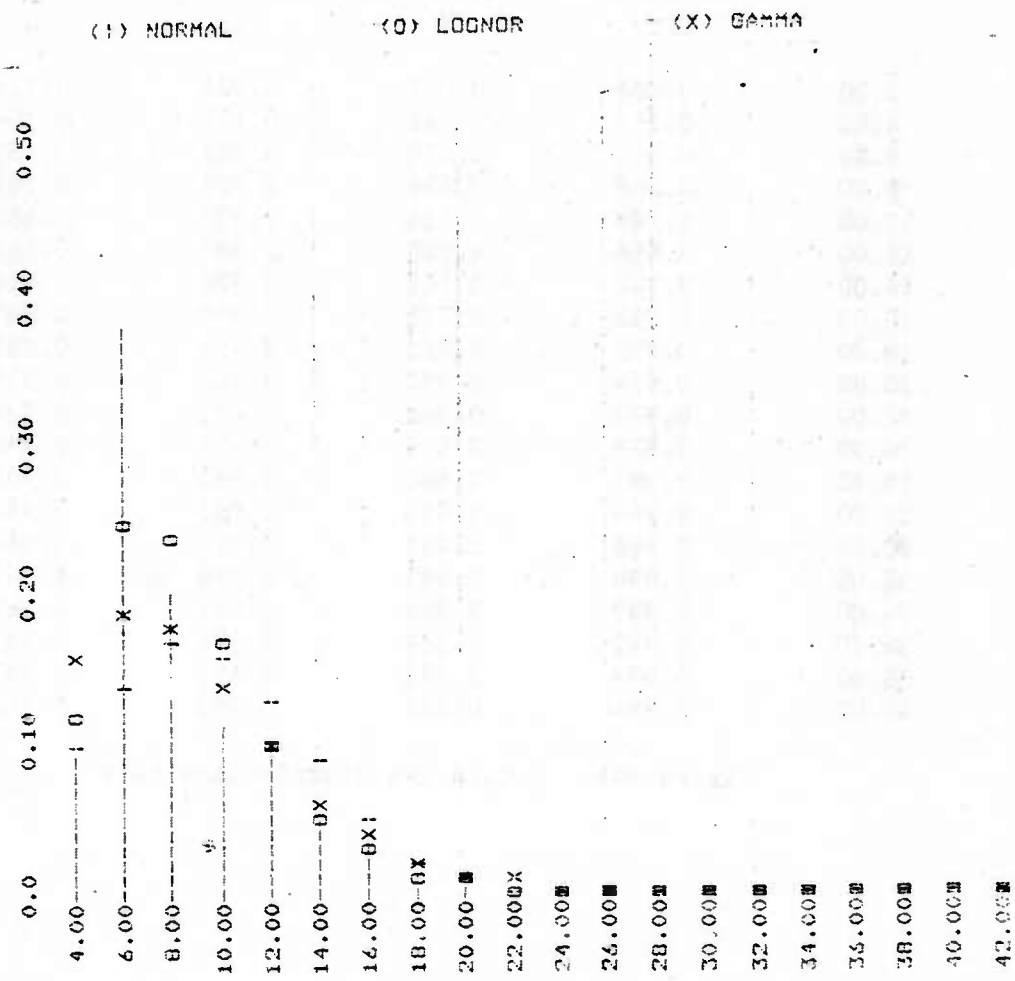


Figure 95. Histogram for City

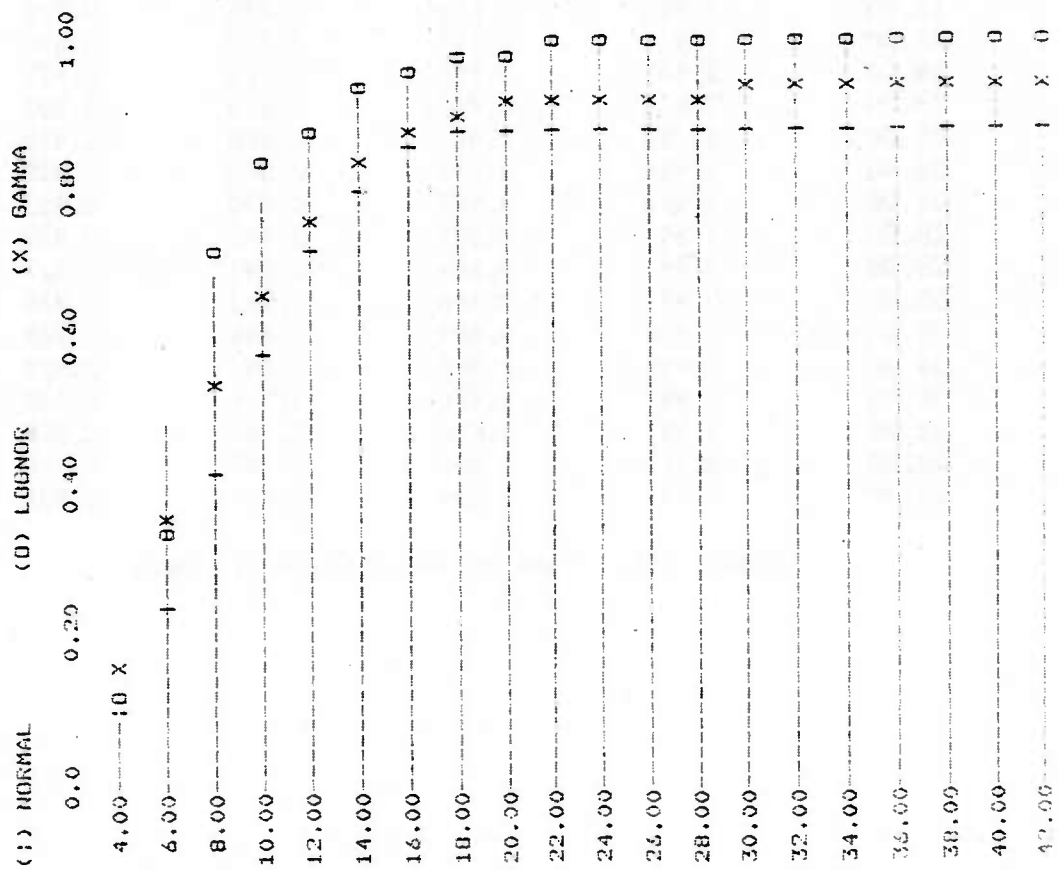


Figure 95a. Cumulative Distribution for City

	City	N	L	G
4.00	0.089	0.104	0.122	0.159
6.00	0.471	0.248	0.344	0.353
8.00	0.674	0.415	0.715	0.529
10.00	0.781	0.577	0.840	0.668
12.00	0.883	0.709	0.878	0.765
14.00	0.934	0.798	0.935	0.830
16.00	0.962	0.848	0.961	0.871
18.00	0.973	0.872	0.976	0.895
20.00	0.985	0.881	0.980	0.910
22.00	0.988	0.884	0.988	0.918
24.00	0.990	0.885	0.990	0.923
26.00	0.991	0.885	0.991	0.926
28.00	0.991	0.886	0.992	0.927
30.00	0.994	0.886	0.992	0.928
32.00	0.995	0.886	0.994	0.928
34.00	0.996	0.886	0.995	0.928
36.00	0.997	0.886	0.996	0.928
38.00	0.997	0.886	0.997	0.928
40.00	0.997	0.886	0.997	0.929
42.00	0.997	0.886	0.997	0.929

Figure 95b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
8.46	3.54	7	14.07	88.37	33.61	48.38

(1) NORMAL

(0) LOG' OR

(X) GAMMA

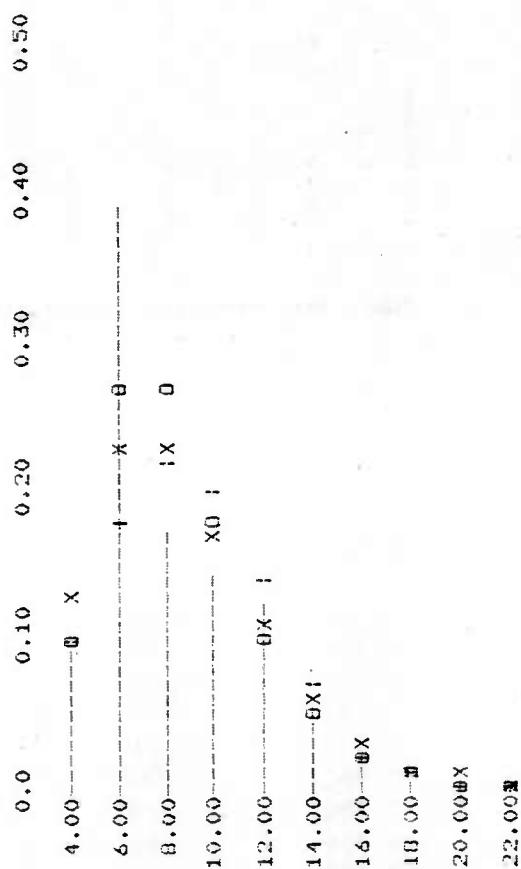


Figure 96. Histogram for City

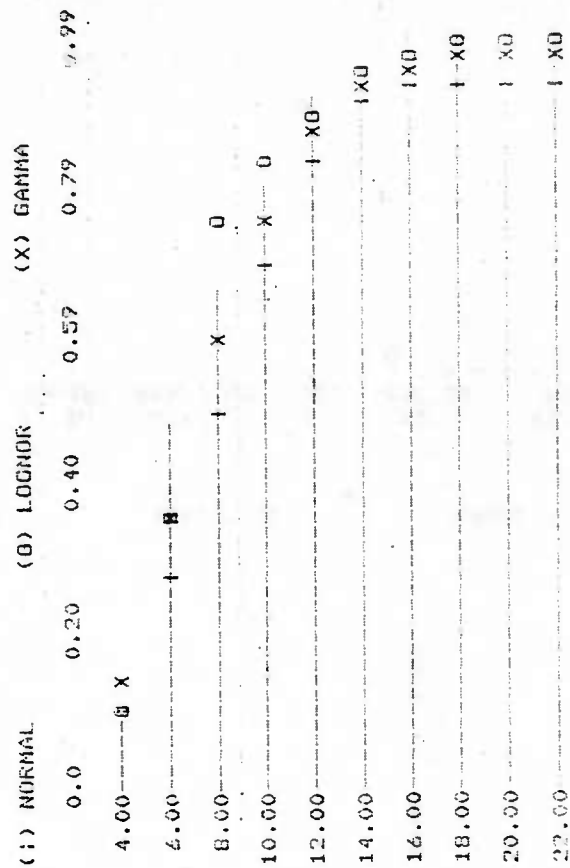


Figure 96a. Cumulative Distribution for City

	City	N	L	G
4.00	0.086	0.103	0.099	0.132
6.00	0.480	0.279	0.353	0.359
8.00	0.649	0.499	0.754	0.589
10.00	0.792	0.702	0.828	0.761
12.00	0.910	0.839	0.887	0.860
14.00	0.961	0.906	0.956	0.925
16.00	0.982	0.930	0.981	0.953
18.00	0.986	0.937	0.991	0.966
20.00	0.989	0.938	0.990	0.972
22.00	0.989	0.938	0.991	0.974

Figure 96b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNCR	GAMMA
30.10	7.49	14	23.68	9.14	17.11	14.61

(1) NORMAL

(0) LOGNCR

(X) GAMMA

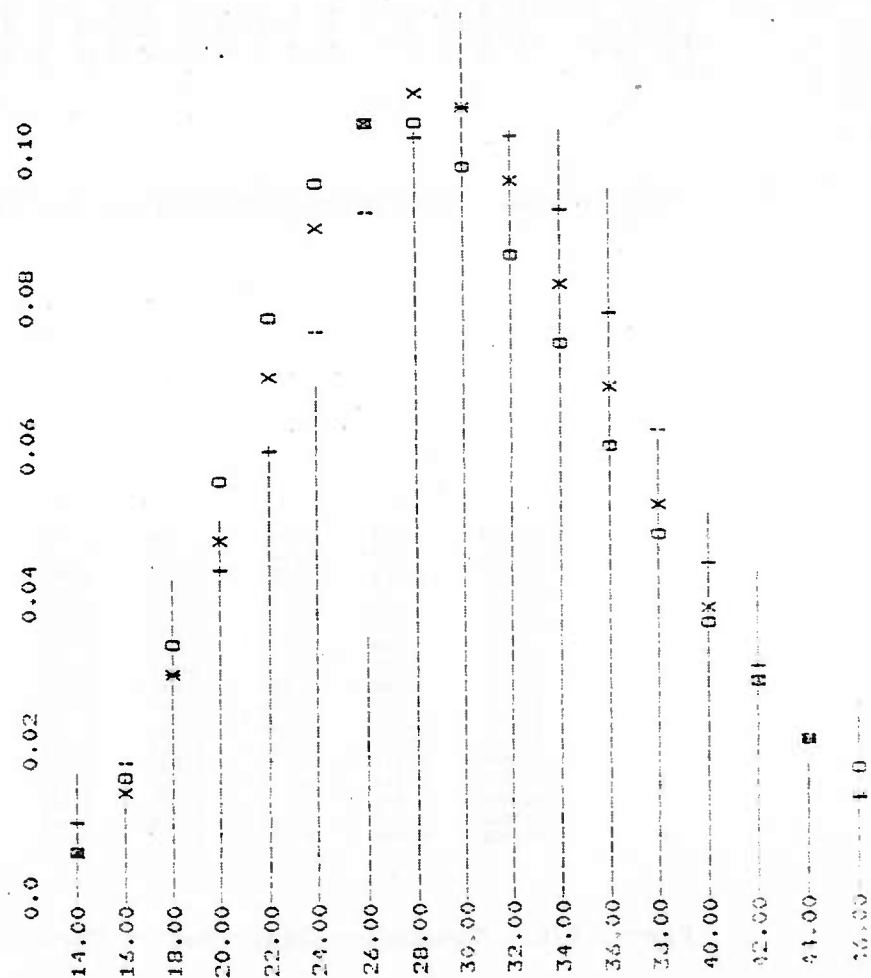


Figure 97. Histogram for Field A

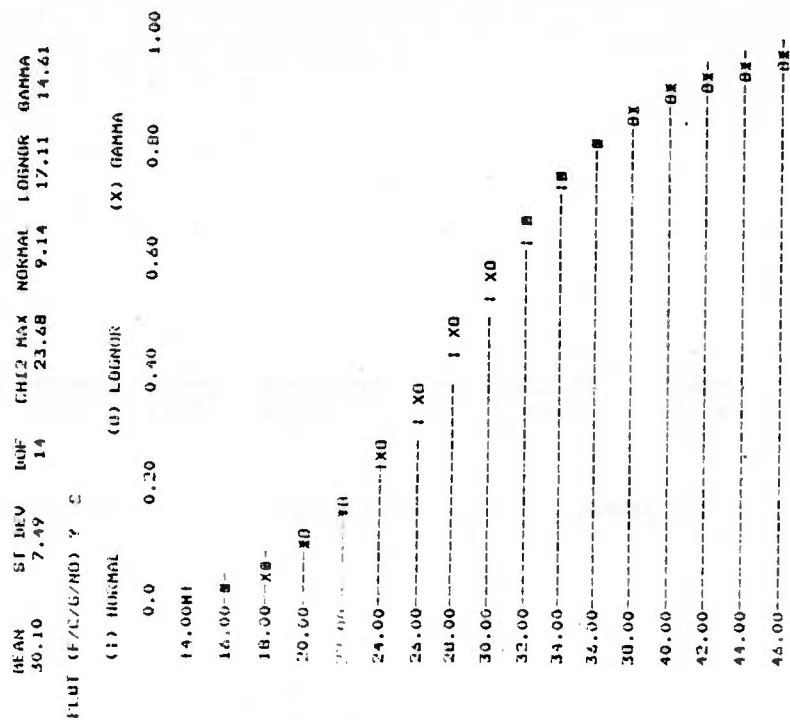


Figure 97a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
J	14.000	0.017	0.011	0.006	0.006
	16.000	0.034	0.029	0.022	0.020
	18.000	0.074	0.058	0.055	0.049
	20.000	0.127	0.101	0.112	0.098
D	22.000	0.186	0.160	0.190	0.169
	24.000	0.254	0.237	0.285	0.259
	26.000	0.288	0.328	0.389	0.363
	28.000	0.390	0.430	0.494	0.472
J	30.000	0.508	0.537	0.592	0.578
	32.000	0.610	0.639	0.679	0.674
	34.000	0.712	0.732	0.753	0.757
	36.000	0.805	0.810	0.813	0.824
D	38.000	0.864	0.871	0.861	0.877
	40.000	0.915	0.916	0.897	0.916
	42.000	0.958	0.946	0.925	0.944
	44.000	0.975	0.965	0.946	0.963
A	46.000	1.000	0.977	0.961	0.976

Figure 97b. Cumulative Distribution Data

MEAN 31.82
 ST DEV 10.45
 DOF 30
 CHI2 MAX 43.77
 NORMAL 318.28
 LOGNOR 37.94
 GAMMA 58.50

() NORMAL
 (O) LOGNOR
 (X) GAMMA

0.10 0.08 0.06 0.04 0.02 0.0

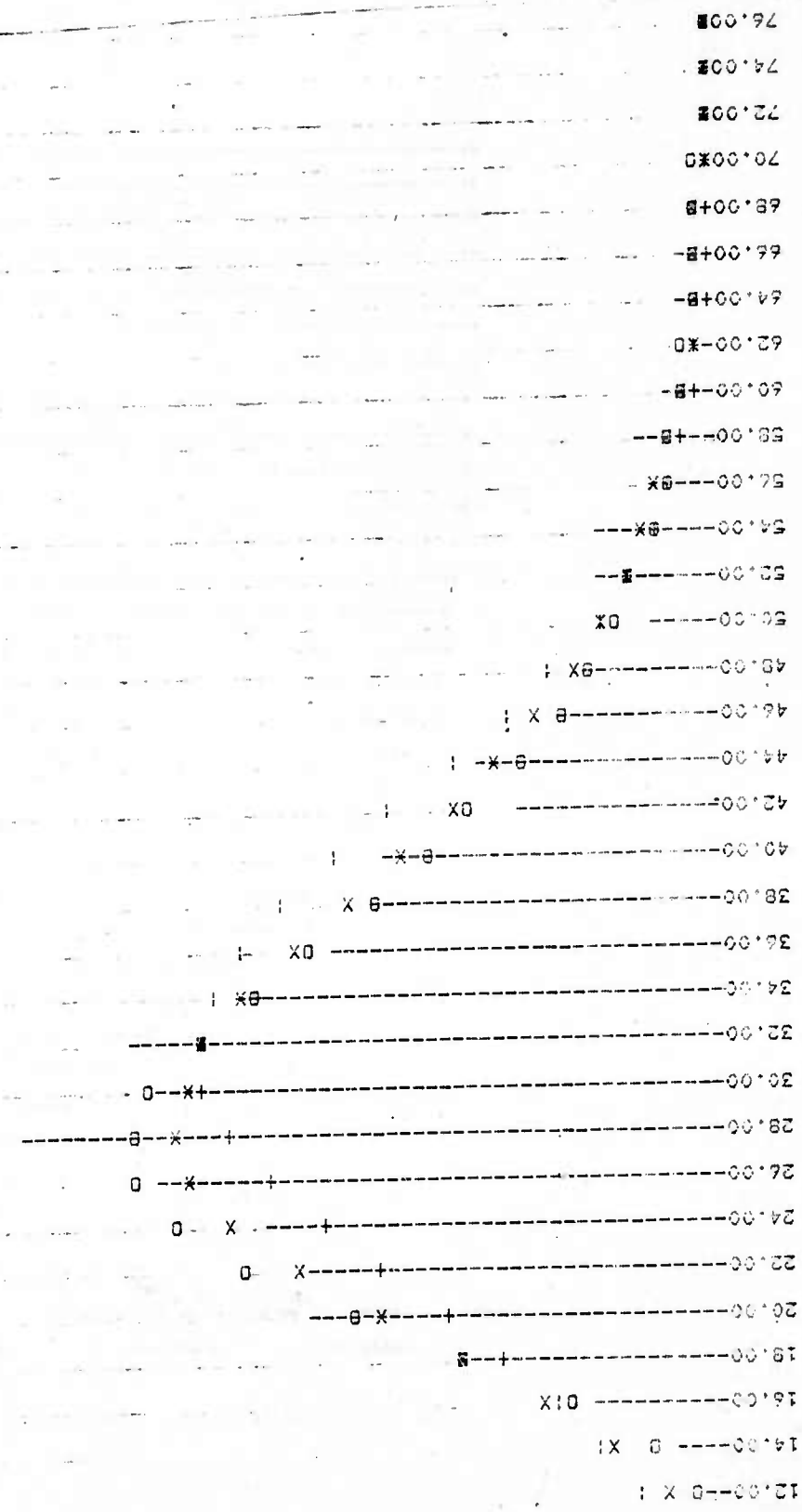


Figure 98. Histogram for Field A

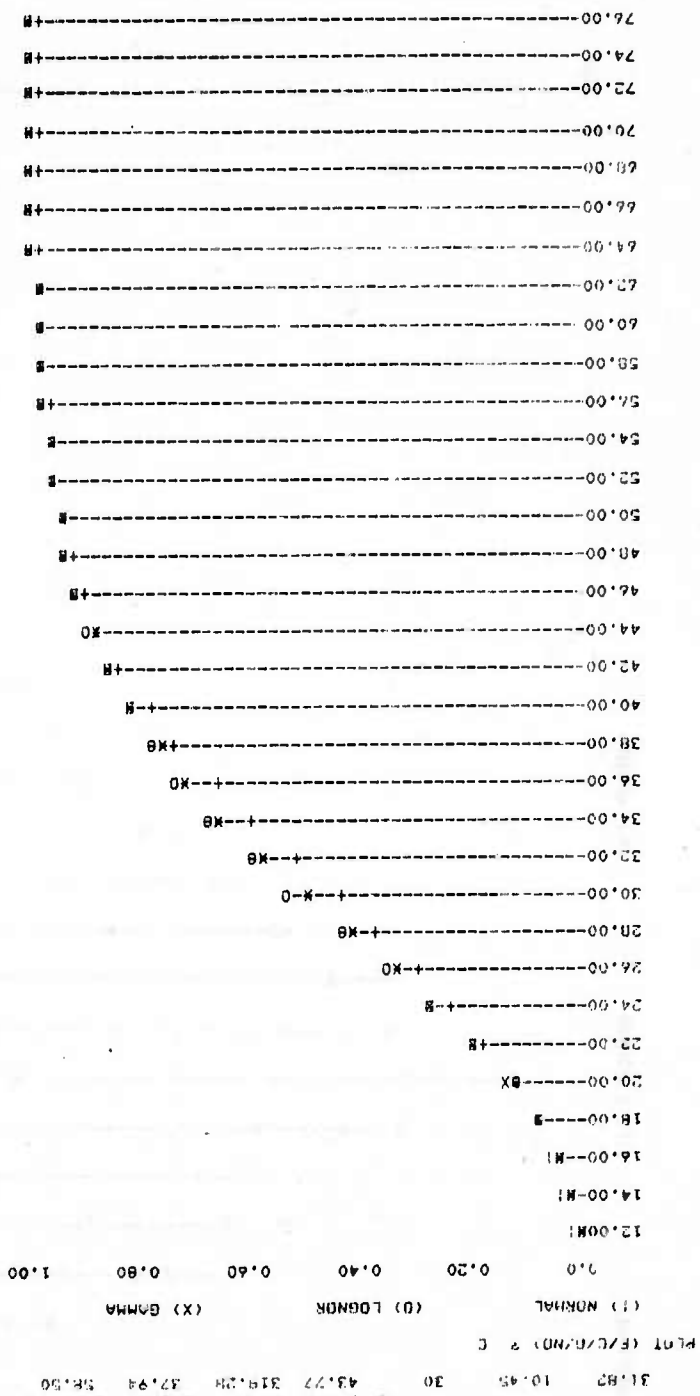


Figure 98a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
D	12.000	0.002	0.013	0.003	0.008
	14.000	0.007	0.031	0.013	0.023
	16.000	0.025	0.055	0.035	0.049
D	18.000	0.064	0.087	0.072	0.087
	20.000	0.124	0.127	0.126	0.138
	22.000	0.184	0.176	0.195	0.200
D	24.000	0.251	0.234	0.275	0.272
	26.000	0.333	0.299	0.361	0.349
	28.000	0.436	0.370	0.447	0.429
D	30.000	0.517	0.446	0.531	0.508
	32.000	0.603	0.522	0.607	0.583
	34.000	0.672	0.596	0.676	0.653
D	36.000	0.727	0.667	0.736	0.715
	38.000	0.776	0.731	0.787	0.769
	40.000	0.824	0.787	0.829	0.815
D	42.000	0.861	0.835	0.864	0.854
	44.000	0.884	0.873	0.893	0.886
	46.000	0.907	0.904	0.916	0.911
D	48.000	0.925	0.927	0.934	0.932
	50.000	0.932	0.944	0.949	0.948
	52.000	0.948	0.956	0.960	0.960
D	54.000	0.964	0.964	0.969	0.969
	56.000	0.972	0.969	0.976	0.977
	58.000	0.981	0.972	0.981	0.982
D	60.000	0.986	0.974	0.985	0.986
	62.000	0.988	0.975	0.988	0.989
	64.000	0.992	0.976	0.991	0.991
D	66.000	0.996	0.976	0.993	0.992
	68.000	0.997	0.977	0.994	0.993
	70.000	0.997	0.977	0.995	0.994
D	72.000	0.998	0.977	0.996	0.995
	74.000	0.999	0.977	0.997	0.995
	76.000	1.000	0.977	0.998	0.995

Figure 98b. Cumulative Distribution Data

MEAN 32.32 ST DEV 11.22 DOF 37 CHI2 MAX 43.7712698.01 NORMAL LOGNOR GAMMA 63.58 221.68

(1) NORMAL (0) LOGNOR (X) GAMMA

0.0 0.02 0.04 0.06 0.08 0.10

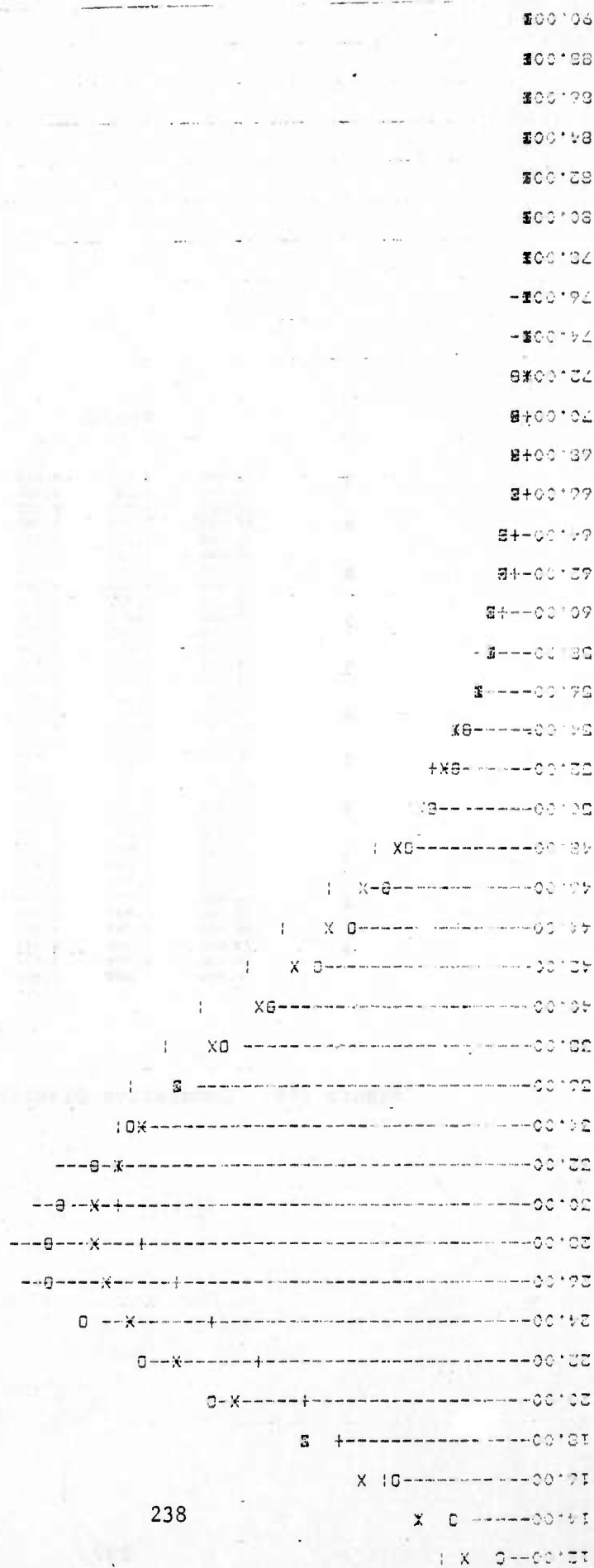


Figure 99. Histogram for Field A

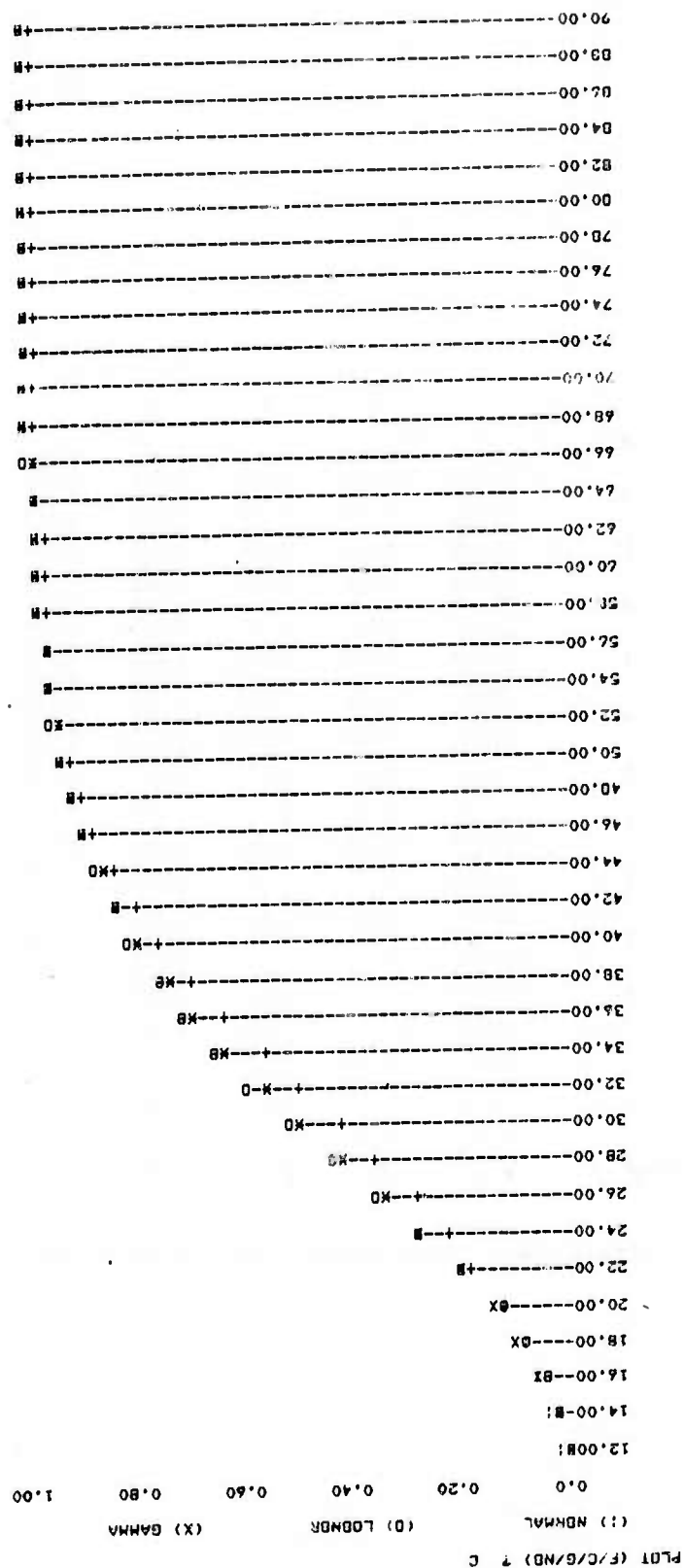


Figure 99a. Cumulative Distribution for Field A

		Field			
		A	N	L	G
D	6	12.000	0.003	0.014	0.004
		14.000	0.011	0.033	0.015
D		16.000	0.031	0.057	0.038
		18.000	0.062	0.089	0.075
D		20.000	0.114	0.128	0.128
		22.000	0.178	0.174	0.195
D		24.000	0.250	0.228	0.271
		26.000	0.346	0.289	0.353
D		28.000	0.424	0.355	0.436
		30.000	0.509	0.424	0.516
D		32.000	0.589	0.495	0.590
		34.000	0.655	0.566	0.657
D		36.000	0.712	0.633	0.716
		38.000	0.761	0.695	0.767
D		40.000	0.805	0.752	0.811
		42.000	0.840	0.801	0.847
D		44.000	0.867	0.842	0.877
		46.000	0.893	0.876	0.901
D		48.000	0.912	0.903	0.921
		50.000	0.927	0.923	0.937
D		52.000	0.944	0.939	0.950
		54.000	0.954	0.950	0.960
D		56.000	0.964	0.957	0.969
		58.000	0.972	0.963	0.975
D		60.000	0.978	0.966	0.980
		62.000	0.982	0.968	0.984
D		64.000	0.987	0.969	0.987
		66.000	0.989	0.970	0.990
D		68.000	0.991	0.971	0.992
		70.000	0.992	0.971	0.993
D		72.000	0.993	0.971	0.995
		74.000	0.995	0.971	0.996
D		76.000	0.997	0.971	0.996
		78.000	0.997	0.971	0.997
D		80.000	0.997	0.971	0.997
		82.000	0.998	0.971	0.998
D		84.000	0.998	0.971	0.998
		86.000	0.998	0.971	0.998
D		88.000	0.999	0.971	0.998
		90.000	0.999	0.971	0.998

Figure 99b. Cumulative Distribution Data

100 X
F₁

MEAN 33.06 ST DEV 11.06 DOF 37 CHI² MAX 43.77 NORMAL 5509.58 LOGNOR 72.58 GAMMA 235.94

(:) NORMAL (O) LOGNOR (X) GAMMA

0.10 0.08 0.06 0.04 0.02 0.0

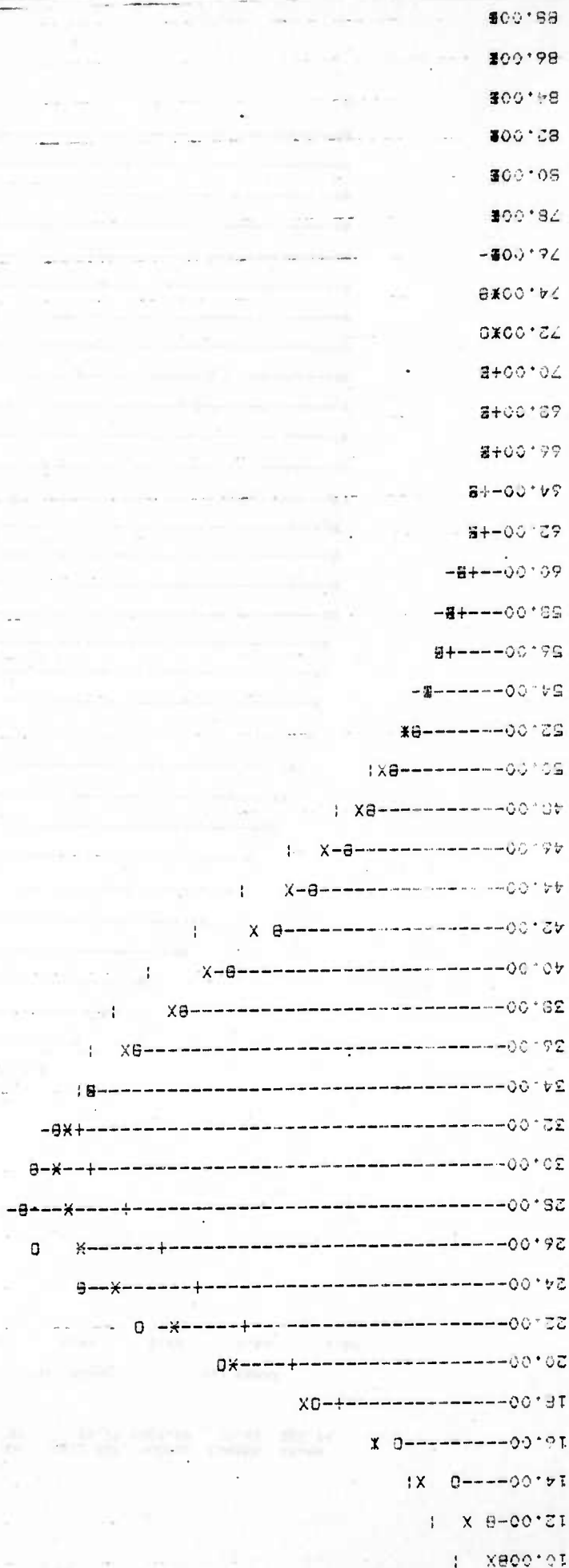


Figure 100. Histogram for Field A

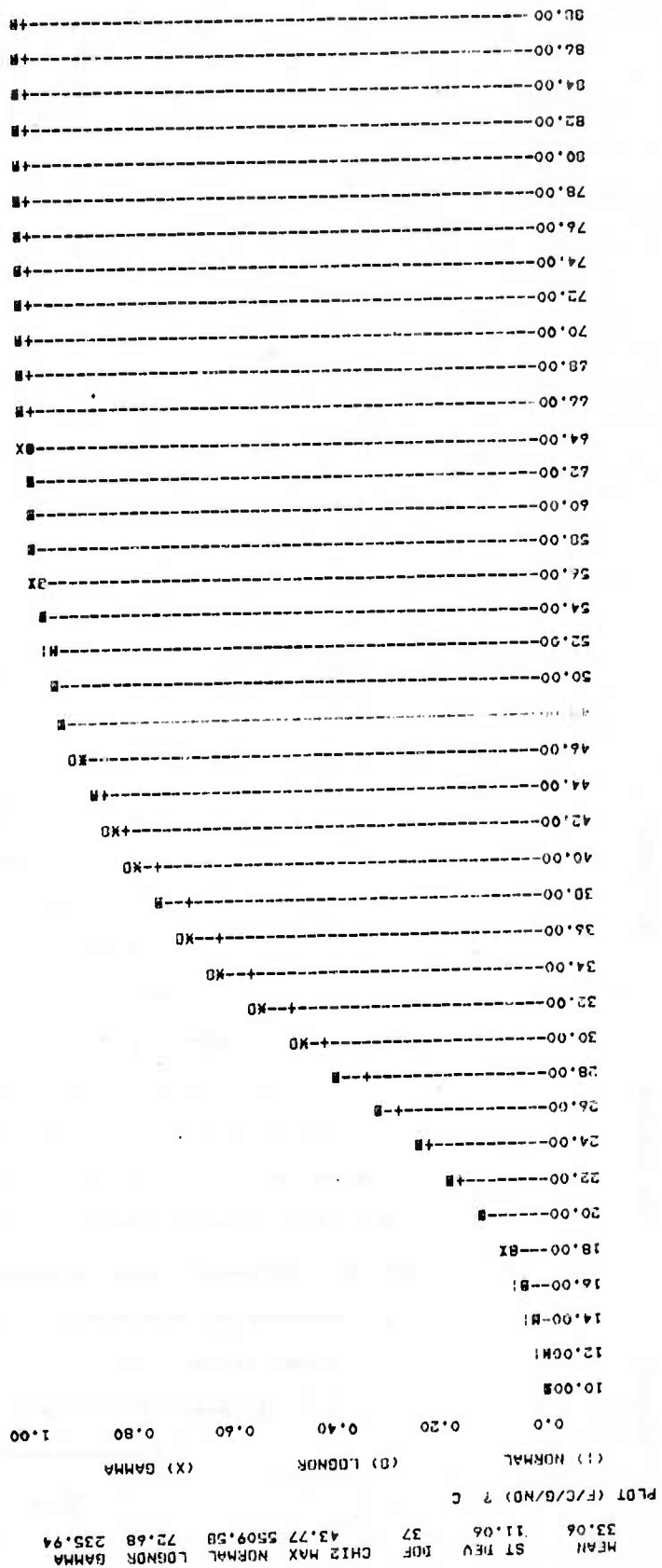


Figure 100a. Cumulative Distribution for Field A

6	Field			
	A	N	I.	G
10.000	0.000	0.008	0.001	0.003
12.000	0.002	0.020	0.004	0.010
14.000	0.009	0.036	0.012	0.023
16.000	0.025	0.058	0.031	0.046
18.000	0.055	0.087	0.063	0.080
20.000	0.101	0.123	0.111	0.125
22.000	0.159	0.167	0.173	0.181
24.000	0.231	0.218	0.245	0.246
26.000	0.304	0.277	0.325	0.317
28.000	0.388	0.342	0.406	0.392
30.000	0.468	0.411	0.487	0.468
32.000	0.546	0.483	0.563	0.541
34.000	0.617	0.555	0.632	0.611
36.000	0.679	0.624	0.694	0.674
38.000	0.734	0.690	0.748	0.731
40.000	0.782	0.749	0.794	0.780
42.000	0.821	0.801	0.833	0.823
44.000	0.855	0.845	0.865	0.859
46.000	0.883	0.881	0.892	0.889
48.000	0.906	0.910	0.914	0.913
50.000	0.924	0.917	0.921	0.920
52.000	0.940	0.950	0.946	0.948
54.000	0.953	0.962	0.957	0.961
56.000	0.964	0.970	0.966	0.970
58.000	0.973	0.976	0.973	0.977
60.000	0.981	0.979	0.979	0.983
62.000	0.985	0.982	0.983	0.987
64.000	0.989	0.983	0.987	0.990
66.000	0.991	0.984	0.990	0.993
68.000	0.993	0.985	0.992	0.994
70.000	0.994	0.985	0.994	0.996
72.000	0.995	0.985	0.995	0.997
74.000	0.997	0.985	0.996	0.997
76.000	0.998	0.985	0.997	0.998
78.000	0.998	0.985	0.998	0.998
80.000	0.999	0.985	0.998	0.998
82.000	0.999	0.985	0.998	0.999
84.000	0.999	0.985	0.999	0.999
86.000	0.999	0.985	0.999	0.999
88.000	0.999	0.985	0.999	0.999

Figure 100b. Cumulative Distribution Data

MEAN 34.39 ST DEV 10.07 DOF 37 CHI2 MAX 43.774119.29 NORMAL LOGNOR GAMMA 95.50 474.75

(X) GAMMA

(O) LOGNOR

(I) NORMAL

0.10

0.08

0.06

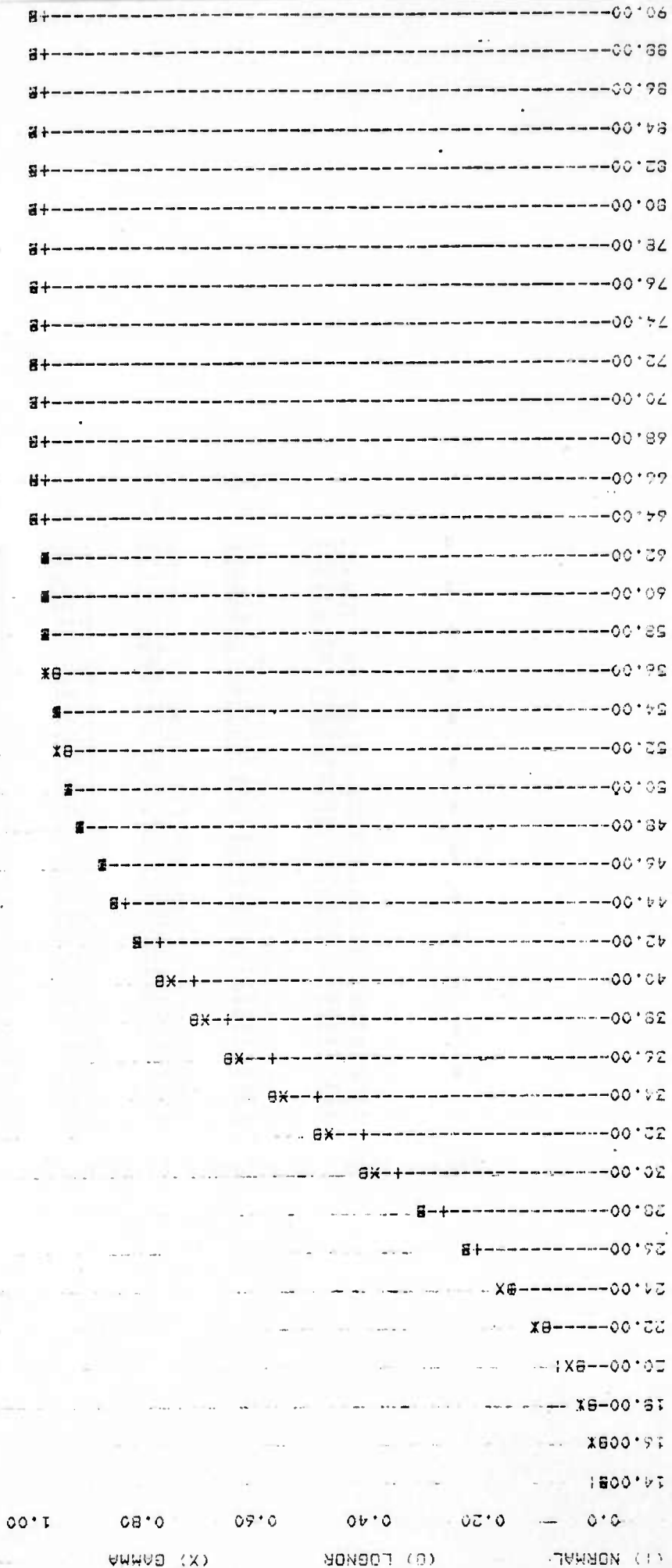
0.04

0.02

0.0

Figure 101. Histogram for Field A

Figure 101a. Cumulative Distribution for Field A



		Field			
		A	N	L	G
D	14.000	0.001	0.010	0.002	0.006
	16.000	0.006	0.025	0.009	0.017
	18.000	0.019	0.046	0.025	0.039
D	20.000	0.048	0.075	0.054	0.070
	22.000	0.095	0.112	0.100	0.115
	24.000	0.159	0.159	0.161	0.172
D	26.000	0.238	0.215	0.237	0.241
	28.000	0.325	0.279	0.322	0.317
	30.000	0.418	0.351	0.411	0.398
D	32.000	0.506	0.428	0.499	0.480
	34.000	0.584	0.507	0.581	0.560
	36.000	0.655	0.585	0.655	0.634
D	38.000	0.719	0.660	0.721	0.701
	40.000	0.775	0.727	0.777	0.760
	42.000	0.820	0.787	0.824	0.810
D	44.000	0.856	0.837	0.863	0.852
	46.000	0.888	0.878	0.894	0.886
	48.000	0.912	0.910	0.918	0.913
D	50.000	0.932	0.934	0.937	0.935
	52.000	0.946	0.951	0.952	0.951
	54.000	0.960	0.963	0.964	0.964
D	56.000	0.970	0.971	0.973	0.973
	58.000	0.978	0.976	0.979	0.980
	60.000	0.983	0.979	0.985	0.985
D	62.000	0.988	0.981	0.988	0.989
	64.000	0.990	0.982	0.991	0.991
	66.000	0.993	0.983	0.993	0.993
D	68.000	0.994	0.983	0.995	0.994
	70.000	0.996	0.983	0.996	0.995
	72.000	0.997	0.983	0.997	0.996
D	74.000	0.998	0.983	0.998	0.996
	76.000	0.998	0.983	0.998	0.997
	78.000	0.999	0.983	0.999	0.997
D	80.000	0.999	0.983	0.999	0.997
	82.000	0.999	0.983	0.999	0.997
	84.000	0.999	0.983	0.999	0.997
D	86.000	1.000	0.983	0.999	0.997
	88.000	1.000	0.983	0.999	0.997
	90.000	1.000	0.983	0.999	0.997
-	92.000	1.000	0.983	0.999	0.997

Figure 101b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
41.98	9.54	25	37.65	31.09	32.84	22.95

102

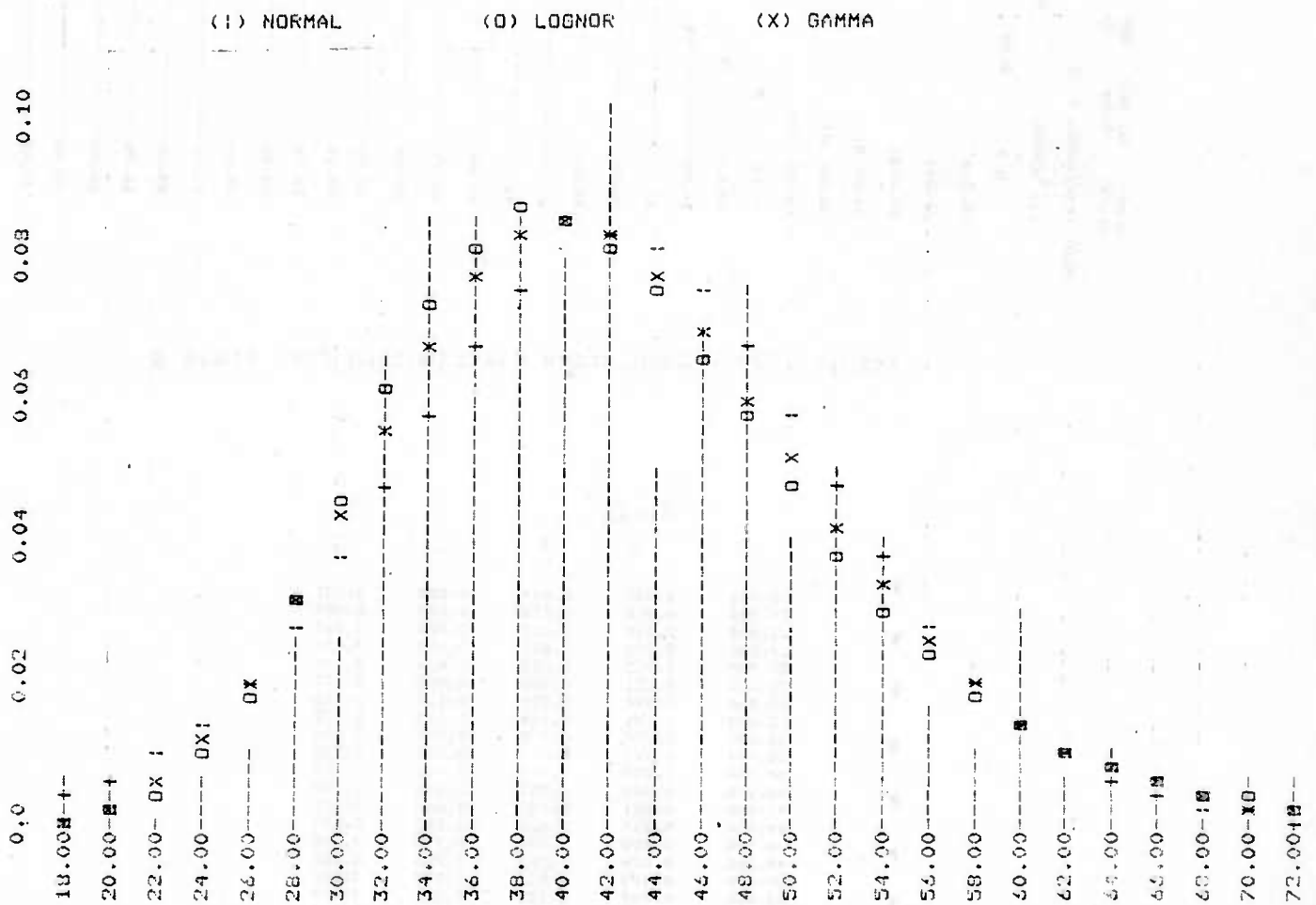


Figure 102. Histogram for Field B

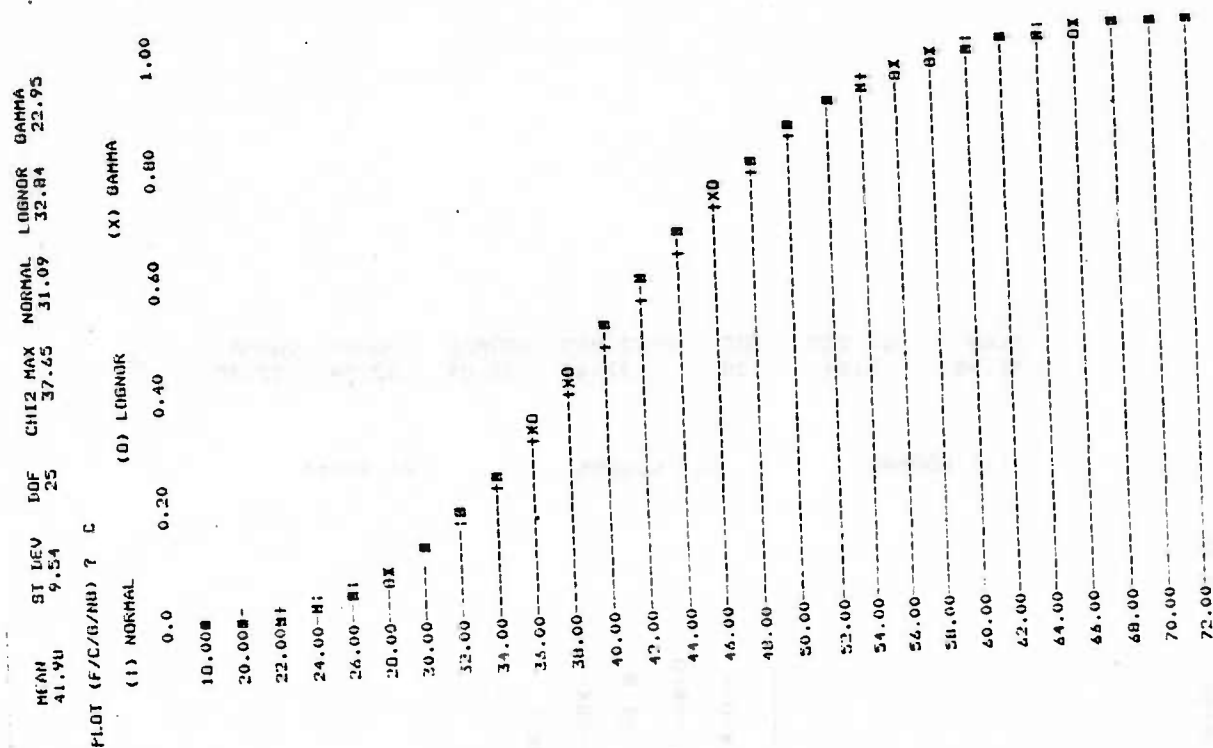


Figure 102a. Cumulative Distribution for Field B

Field				
	B	N	I	G
18.000	0.008	0.004	0.003	0.001
20.000	0.016	0.010	0.008	0.004
22.000	0.024	0.019	0.006	0.010
24.000	0.032	0.033	0.015	0.021
26.000	0.045	0.054	0.034	0.041
28.000	0.051	0.082	0.066	0.072
30.000	0.076	0.120	0.112	0.116
32.000	0.141	0.169	0.173	0.173
34.000	0.227	0.228	0.247	0.242
36.000	0.313	0.296	0.330	0.320
38.000	0.399	0.373	0.417	0.403
40.000	0.480	0.455	0.504	0.489
42.000	0.581	0.538	0.586	0.572
44.000	0.631	0.620	0.662	0.649
46.000	0.702	0.696	0.728	0.719
48.000	0.778	0.765	0.785	0.780
50.000	0.818	0.823	0.833	0.831
52.000	0.869	0.872	0.871	0.873
54.000	0.909	0.909	0.902	0.906
56.000	0.924	0.938	0.927	0.932
58.000	0.934	0.958	0.946	0.951
60.000	0.965	0.973	0.960	0.966
62.000	0.977	0.982	0.971	0.976
64.000	0.980	0.988	0.979	0.984
66.000	0.985	0.991	0.985	0.989
68.000	0.985	0.993	0.989	0.993
70.000	0.990	0.994	0.992	0.995
72.000	0.995	0.995	0.994	0.997

Figure 102b. Cumulative Distribution Data

10 x 100

Fig.

MEAN 40.80 ST DEV 10.93 DOF 28 CHI2 MAX 41.34 NORMAL LOGNOR GAMMA 38.10 48.33

(X) GAMMA

(O) LOGNOR

(I) NORMAL

0.10 0.08 0.06 0.04 0.02 0.0

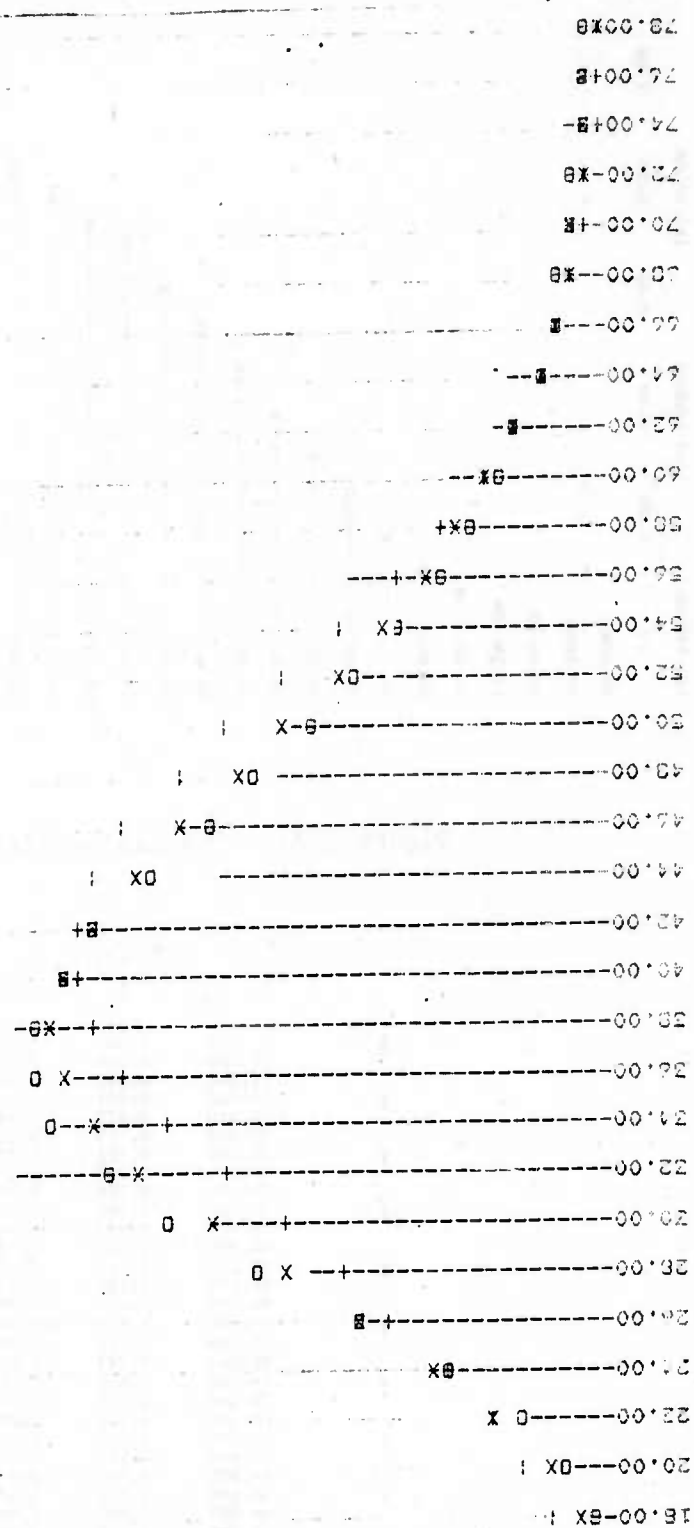


Figure 103. Histogram for Field B

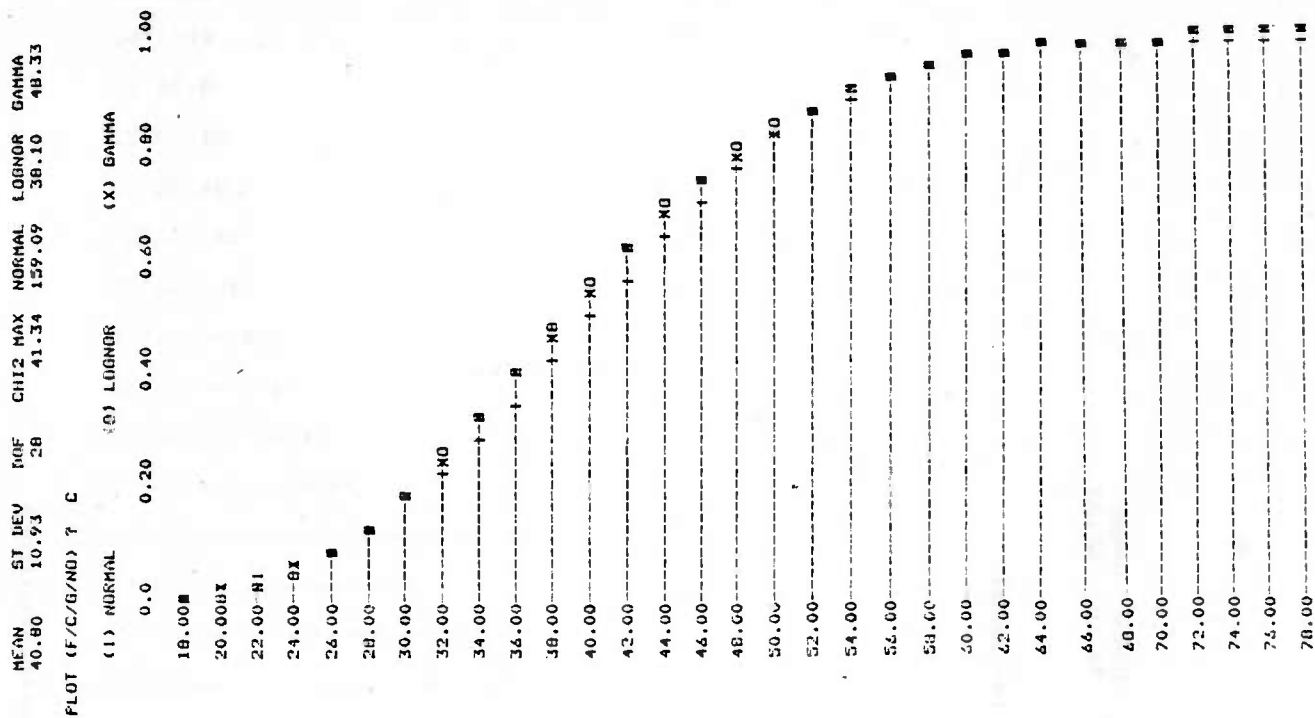


Figure 103a. Cumulative Distribution for Field B

Field				
	B	N	L	G
10.000	0.002	0.008	0.002	0.004
20.000	0.006	0.020	0.008	0.013
22.000	0.017	0.037	0.021	0.029
24.000	0.041	0.059	0.043	0.052
26.000	0.073	0.099	0.077	0.086
28.000	0.113	0.125	0.125	0.130
30.000	0.166	0.170	0.184	0.194
32.000	0.247	0.223	0.253	0.247
34.000	0.320	0.283	0.328	0.317
36.000	0.391	0.349	0.407	0.391
38.000	0.472	0.420	0.485	0.466
40.000	0.545	0.493	0.559	0.540
42.000	0.618	0.565	0.628	0.610
44.000	0.670	0.635	0.691	0.675
46.000	0.727	0.700	0.746	0.733
48.000	0.772	0.759	0.793	0.783
50.000	0.813	0.810	0.833	0.827
52.000	0.844	0.853	0.867	0.863
54.000	0.873	0.888	0.894	0.893
56.000	0.907	0.916	0.917	0.918
58.000	0.925	0.937	0.935	0.937
60.000	0.940	0.953	0.949	0.952
62.000	0.962	0.964	0.960	0.964
64.000	0.973	0.972	0.969	0.973
66.000	0.980	0.977	0.976	0.979
68.000	0.985	0.980	0.982	0.984
70.000	0.988	0.982	0.986	0.988
72.000	0.993	0.984	0.989	0.991
74.000	0.996	0.984	0.991	0.993
76.000	0.997	0.985	0.993	0.994
78.000	0.998	0.985	0.995	0.995

Figure 103b. Cumulative Distribution Data

MEAN 40.28 ST DEV 11.35 DOF 37 CHI2 MAX 43.77 NORMAL 941.49 LOGNOR 99.20 GAMMA 82.05

(.) NORMAL (O) LOGNOR (X) GAMMA

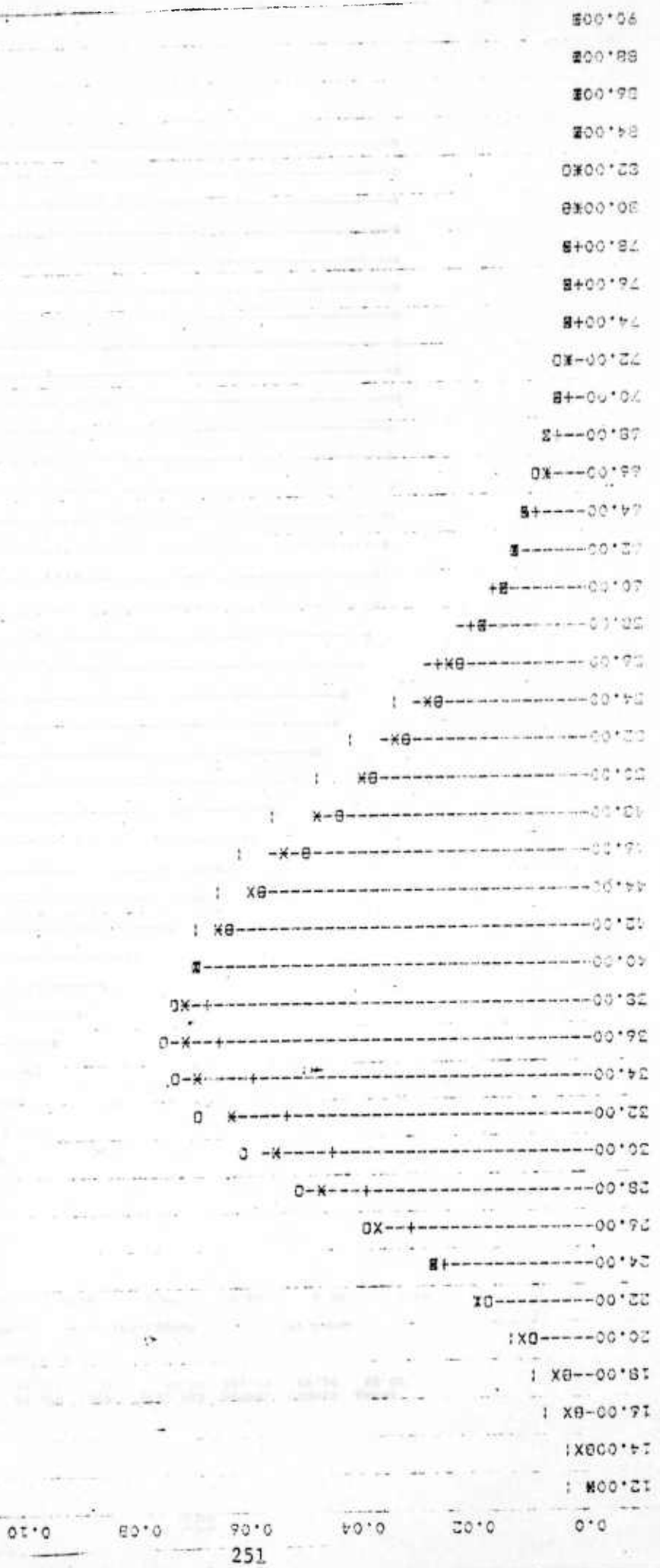


Figure 104. Histogram for Field B

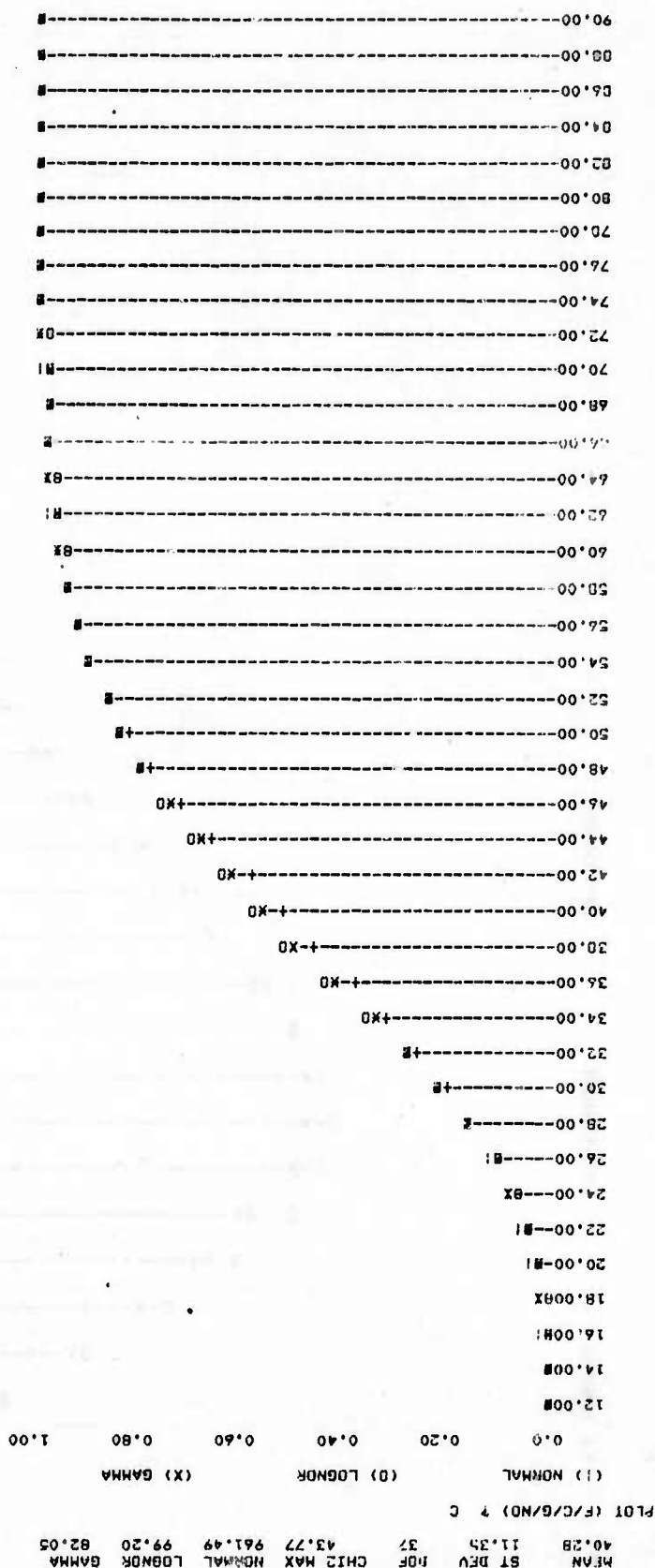


Figure 104a. Cumulative Distribution for Field B

	Field			
	B	N	L	G
12.000	0.000	0.003	0.000	0.000
14.000	0.001	0.008	0.000	0.002
16.000	0.002	0.015	0.002	0.005
18.000	0.005	0.026	0.004	0.011
20.000	0.014	0.040	0.015	0.023
22.000	0.030	0.059	0.033	0.043
24.000	0.058	0.084	0.061	0.071
26.000	0.094	0.116	0.101	0.109
28.000	0.144	0.155	0.153	0.157
30.000	0.201	0.202	0.214	0.214
32.000	0.266	0.256	0.286	0.278
34.000	0.339	0.316	0.360	0.348
36.000	0.413	0.381	0.436	0.420
38.000	0.485	0.450	0.510	0.492
40.000	0.553	0.520	0.580	0.562
42.000	0.619	0.590	0.645	0.628
44.000	0.676	0.656	0.702	0.689
46.000	0.733	0.718	0.753	0.741
48.000	0.780	0.774	0.797	0.791
50.000	0.821	0.823	0.835	0.832
52.000	0.856	0.864	0.866	0.867
54.000	0.885	0.898	0.893	0.896
56.000	0.914	0.925	0.914	0.919
58.000	0.936	0.945	0.932	0.938
60.000	0.951	0.961	0.946	0.953
62.000	0.962	0.972	0.957	0.964
64.000	0.973	0.980	0.967	0.973
66.000	0.979	0.986	0.974	0.980
68.000	0.984	0.989	0.979	0.986
70.000	0.988	0.992	0.984	0.989
72.000	0.991	0.993	0.988	0.992
74.000	0.994	0.994	0.990	0.994
76.000	0.995	0.994	0.992	0.995
78.000	0.996	0.995	0.994	0.997
80.000	0.997	0.995	0.995	0.998
82.000	0.998	0.995	0.996	0.999
84.000	0.999	0.995	0.997	0.999
86.000	0.999	0.995	0.998	0.999
88.000	0.999	0.995	0.998	0.999
90.000	0.999	0.995	0.999	1.000

Figure 104b. Cumulative Distribution Data

BLCH 40.56
 6.1 34.0
 11.51
 37
 CIL2 66X 43.77
 HURAGL 1477.16
 LOGHUR 216.59
 GAMMG 134.41

(1) NORMAL
 (2) LOGNOR
 (X) GAMMA

0.0 0.02 0.04 0.06 0.08 0.10

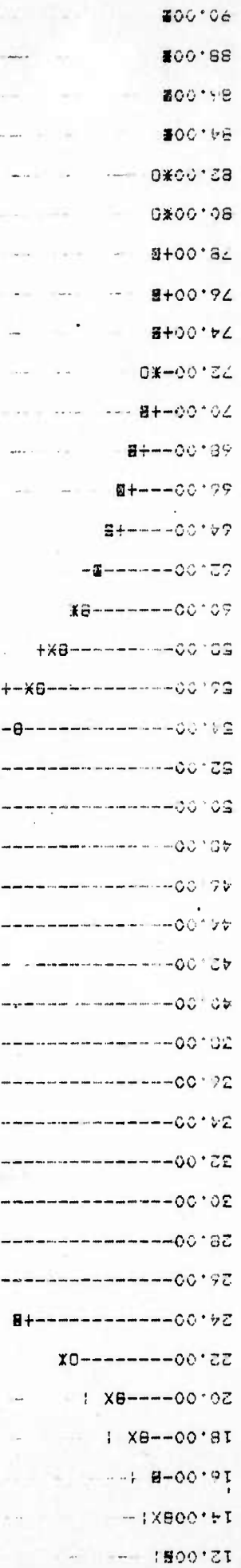


Figure 105. Histogram for Field B

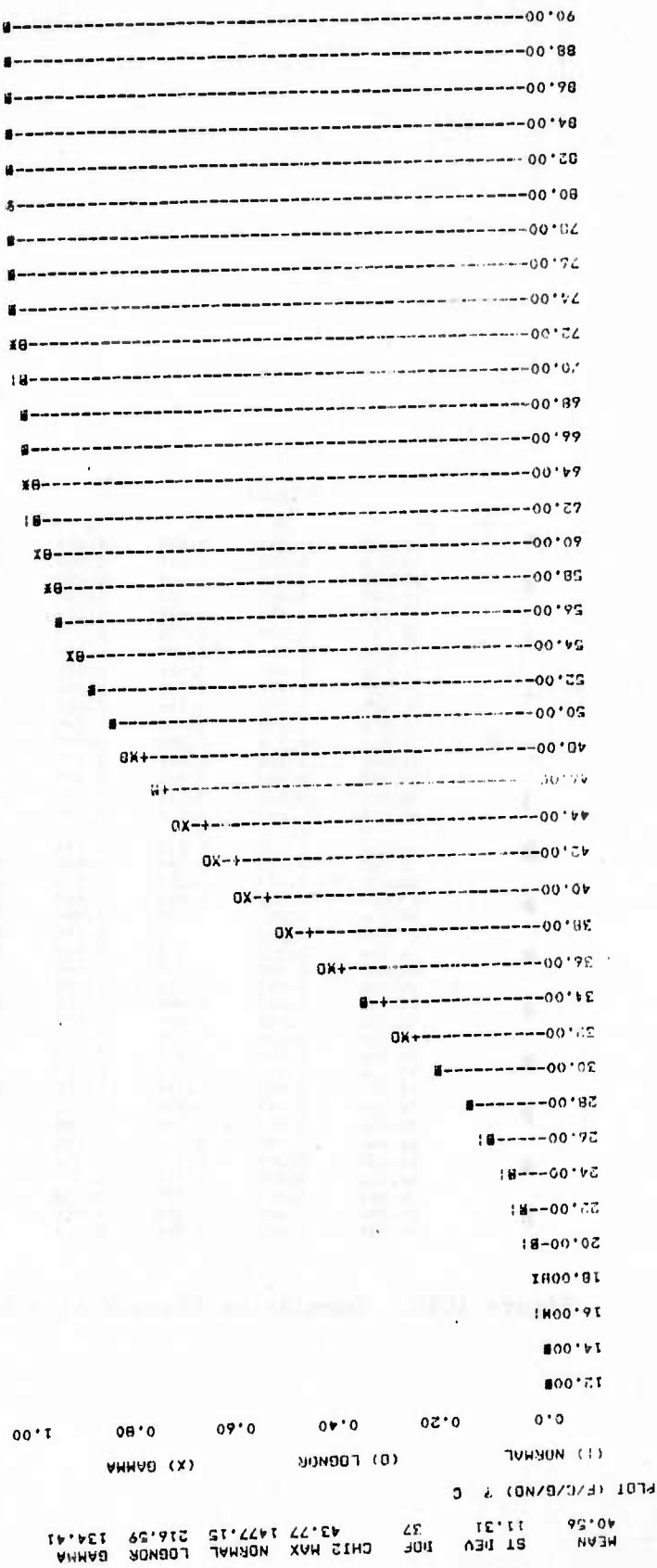


Figure 105a. Cumulative Distribution for Field B

	Field			
	R	N	L	G
12.000	0.000	0.003	0.000	0.000
14.000	0.000	0.007	0.000	0.001
16.000	0.002	0.014	0.002	0.004
18.000	0.005	0.024	0.005	0.010
20.000	0.013	0.037	0.014	0.021
22.000	0.028	0.056	0.030	0.039
24.000	0.055	0.080	0.057	0.066
26.000	0.091	0.111	0.095	0.102
28.000	0.139	0.149	0.146	0.148
30.000	0.195	0.195	0.207	0.204
32.000	0.259	0.247	0.276	0.267
34.000	0.328	0.307	0.350	0.336
36.000	0.398	0.372	0.425	0.409
38.000	0.469	0.441	0.499	0.481
40.000	0.538	0.511	0.570	0.552
42.000	0.607	0.581	0.635	0.619
44.000	0.672	0.711	0.746	0.737
46.000	0.771	0.768	0.791	0.785
50.000	0.814	0.817	0.830	0.828
52.000	0.850	0.860	0.862	0.863
54.000	0.881	0.895	0.889	0.893
56.000	0.910	0.922	0.911	0.917
58.000	0.932	0.944	0.929	0.936
60.000	0.949	0.960	0.944	0.951
62.000	0.962	0.972	0.956	0.963
64.000	0.973	0.980	0.965	0.973
66.000	0.980	0.986	0.973	0.980
68.000	0.986	0.990	0.979	0.985
70.000	0.990	0.992	0.983	0.989
72.000	0.992	0.993	0.987	0.992
74.000	0.994	0.994	0.990	0.994
76.000	0.996	0.995	0.992	0.996
78.000	0.997	0.995	0.994	0.997
80.000	0.997	0.995	0.995	0.998
82.000	0.998	0.995	0.996	0.999
84.000	0.999	0.995	0.997	0.999
86.000	0.999	0.995	0.998	0.999
88.000	0.999	0.996	0.998	0.999
90.000	0.999	0.996	0.999	1.000

Figure 105b. Cumulative Distribution Data

MEAN 41.35
 ST DEV 10.51
 DOF 37
 CHI2 MAX 43.77
 NORMAL 5675.99
 LOGNOR 43.24
 GAMMA 325.00

(X) GAMMA

(O) LOGNOR

(I) NORMAL

0.0 0.02 0.04 0.06 0.08 0.10

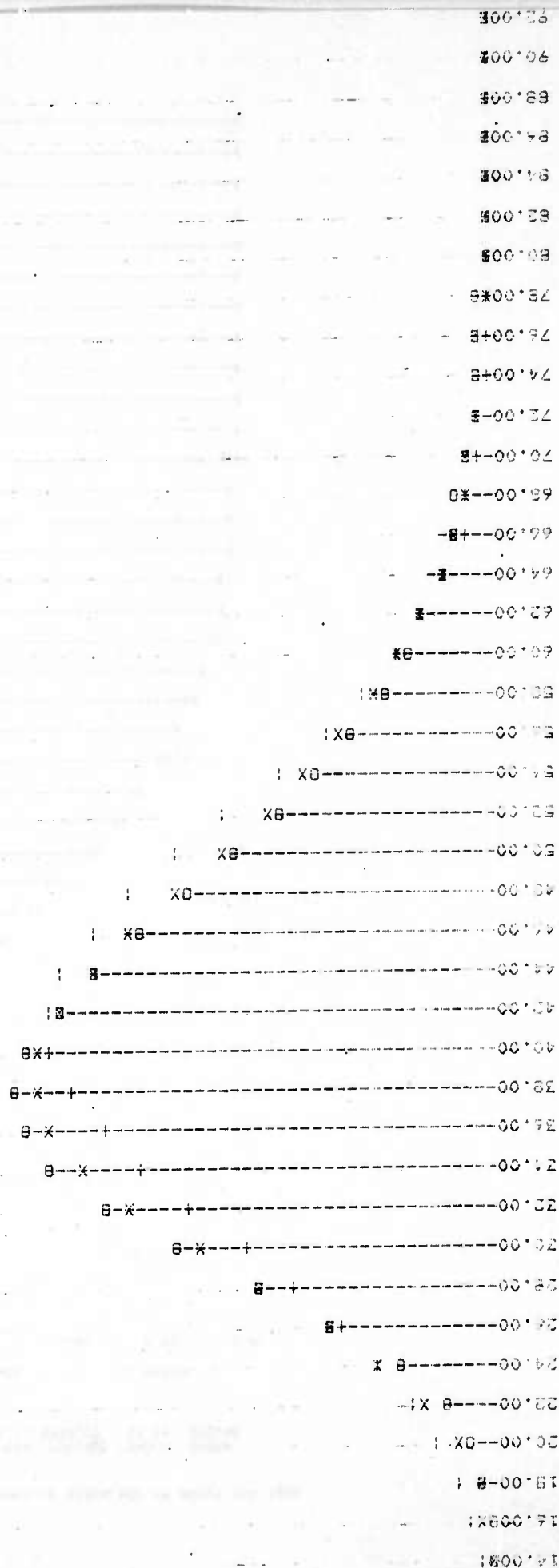


Figure 106. Histogram for Field B

SAVE RESULTS, 25532 POINTS (Y/N) ? N
 1 0.04 4.201
 ENTER REPEAT INDEX
 (S) ENTER HISTOGRAM MIN, MAX, NUMBER OF BOXES AND OF SCALE AND TAIL
 13.03.40.12

MEAN 41.35 ST DEV 10.51 DOF 37 CHI2 MAX NORMAL LOGNOR 43.24 325.00
 LOGNOR BAHMA

PLOT (F/C/G/H/D) ? C

(1) NORMAL (D) LOGNOR (X) BAHMA

0.0 0.20 0.40 0.60 0.80 1.00

14.00 16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00 36.00 38.00 40.00 42.00 44.00 46.00 48.00 50.00 52.00 54.00 56.00 58.00 60.00 62.00 64.00 66.00 68.00 70.00 72.00 74.00 76.00 78.00 80.00 82.00 84.00 86.00 88.00 90.00 92.00

Figure 106a. Cumulative Distribution for Field B

	Field B	N	L	G
12.000	0.000	0.007	0.000	0.001
10.000	0.001	0.013	0.001	0.004
20.000	0.004	0.023	0.005	0.010
22.000	0.011	0.037	0.013	0.022
24.000	0.027	0.056	0.030	0.041
26.000	0.056	0.083	0.057	0.070
28.000	0.095	0.116	0.098	0.109
30.000	0.149	0.159	0.152	0.160
32.000	0.215	0.210	0.219	0.221
34.000	0.291	0.269	0.294	0.290
36.000	0.372	0.346	0.375	0.365
38.000	0.453	0.408	0.457	0.443
40.000	0.532	0.483	0.536	0.520
42.000	0.605	0.559	0.611	0.594
44.000	0.674	0.632	0.678	0.663
46.000	0.735	0.701	0.738	0.725
48.000	0.785	0.763	0.784	0.779
50.000	0.829	0.817	0.832	0.826
52.000	0.865	0.863	0.868	0.865
54.000	0.893	0.899	0.897	0.896
56.000	0.917	0.928	0.920	0.922
58.000	0.937	0.950	0.939	0.942
60.000	0.952	0.966	0.953	0.957
62.000	0.964	0.977	0.965	0.969
64.000	0.974	0.984	0.973	0.977
66.000	0.981	0.989	0.980	0.984
68.000	0.986	0.992	0.985	0.989
70.000	0.989	0.994	0.989	0.992
72.000	0.992	0.995	0.992	0.995
74.000	0.994	0.996	0.994	0.996
76.000	0.995	0.996	0.995	0.997
78.000	0.997	0.996	0.997	0.998
80.000	0.997	0.996	0.998	0.999
82.000	0.998	0.996	0.998	0.999
84.000	0.999	0.996	0.999	1.000
86.000	0.999	0.996	0.999	1.000
88.000	0.999	0.996	0.999	1.000
90.000	0.999	0.996	0.999	1.000
92.000	1.000	0.996	1.000	1.000

Figure 106b. Cumulative Distribution Data

f/x

MEAN 40.95 ST DEV 14.52 DOF 37 CHI2 MAX 43.77 NORMAL 425.98 LOGNOR 58.04 GAMMA 57.59

(1) NORMAL

(0) LOGNOR

(X) GAMMA

0.0 0.02 0.04 0.06 0.08 0.10

092

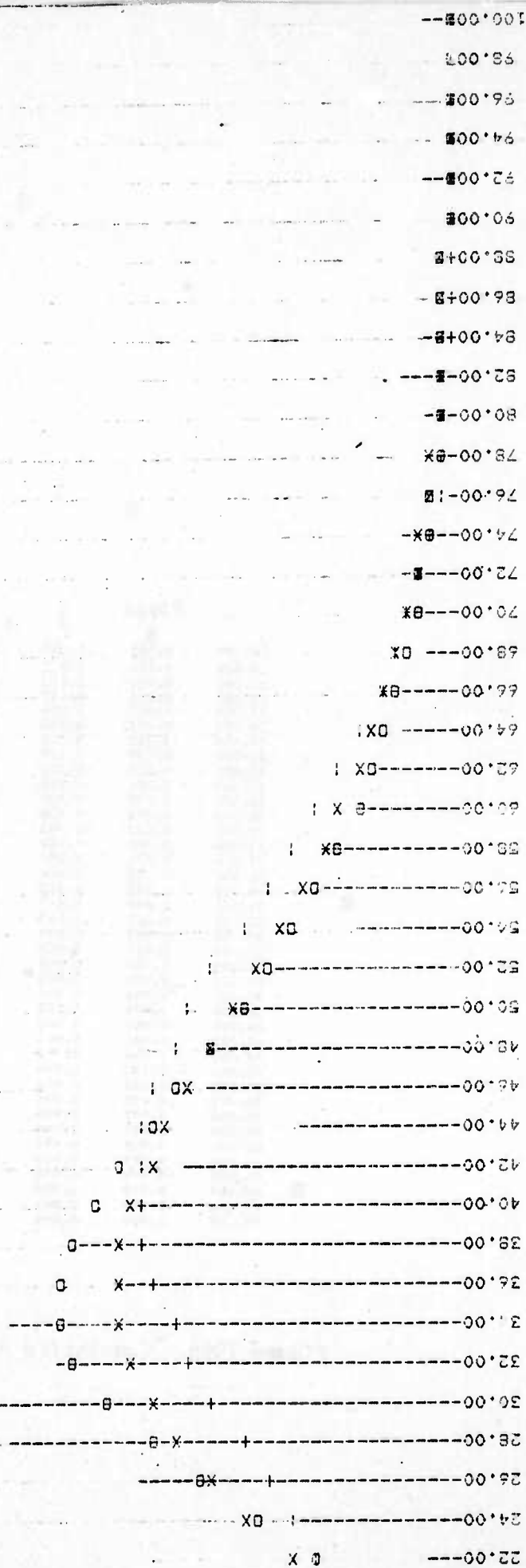


Figure 107. Histogram for field C

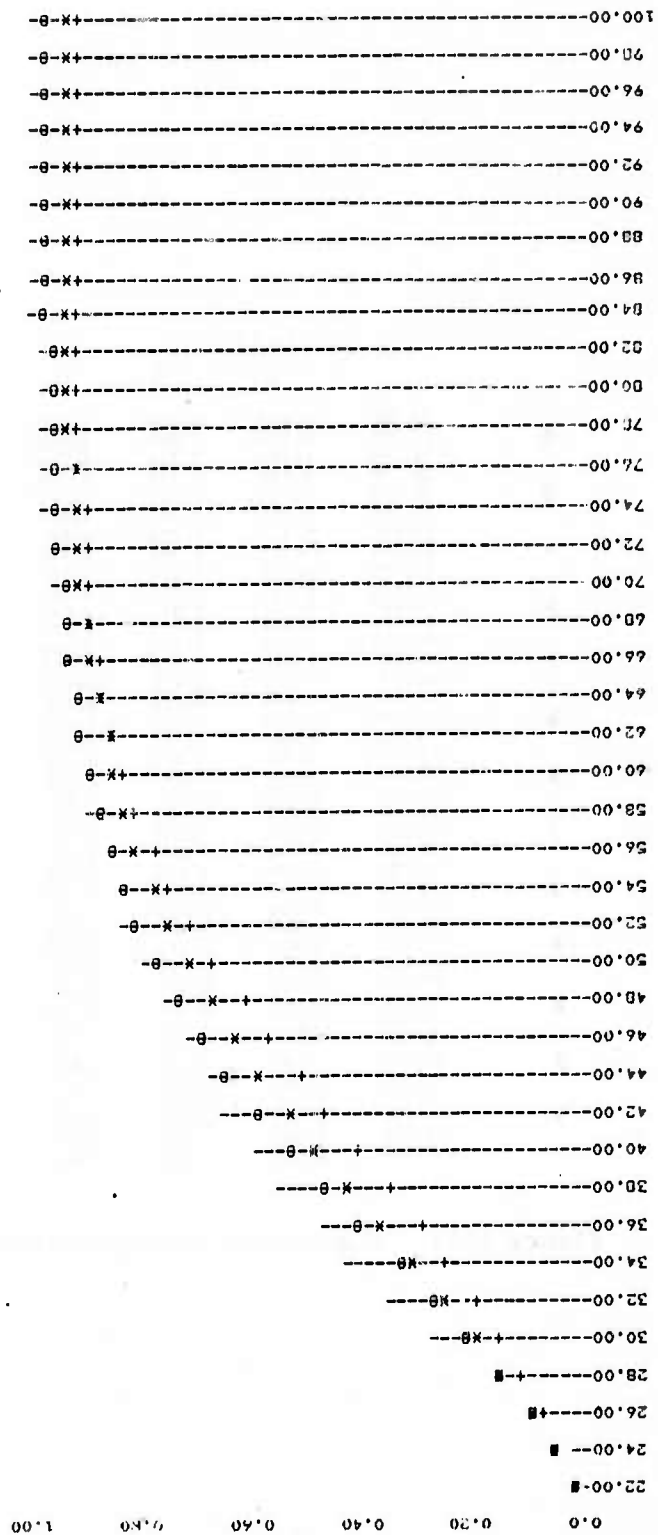


Figure 107a. Cumulative Distribution for Field C

		Field			
		C	N	L	G
D	22.000	0.004	0.023	0.023	0.029
	24.000	0.029	0.051	0.054	0.064
	26.000	0.084	0.084	0.100	0.106
D	28.000	0.160	0.120	0.153	0.154
	30.000	0.284	0.162	0.213	0.206
	32.000	0.353	0.207	0.278	0.262
D	34.000	0.429	0.256	0.346	0.320
	36.000	0.487	0.308	0.414	0.378
	38.000	0.550	0.362	0.479	0.435
D	40.000	0.605	0.417	0.542	0.490
	42.000	0.651	0.471	0.600	0.543
	44.000	0.676	0.525	0.653	0.593
D	46.000	0.718	0.577	0.700	0.639
	48.000	0.761	0.626	0.742	0.680
	50.000	0.798	0.671	0.779	0.718
D	52.000	0.828	0.712	0.810	0.752
	54.000	0.845	0.749	0.837	0.781
	56.000	0.866	0.781	0.860	0.807
D	58.000	0.887	0.808	0.880	0.829
	60.000	0.903	0.832	0.896	0.848
	62.000	0.916	0.851	0.910	0.865
D	64.000	0.924	0.867	0.921	0.878
	66.000	0.937	0.879	0.931	0.890
	68.000	0.941	0.889	0.939	0.900
D	70.000	0.950	0.896	0.945	0.908
	72.000	0.958	0.902	0.950	0.914
	74.000	0.966	0.906	0.955	0.920
D	76.000	0.966	0.909	0.958	0.924
	78.000	0.971	0.911	0.961	0.928
	80.000	0.975	0.912	0.963	0.931
D	82.000	0.983	0.913	0.965	0.933
	84.000	0.987	0.914	0.967	0.935
	86.000	0.987	0.915	0.968	0.936
D	88.000	0.987	0.915	0.969	0.938
	90.000	0.987	0.915	0.970	0.939
	92.000	0.992	0.915	0.971	0.939
D	94.000	0.992	0.915	0.971	0.940
	96.000	0.992	0.915	0.972	0.940
	98.000	0.992	0.915	0.972	0.941
	100.000	0.996	0.915	0.972	0.941

Figure 107h. Cumulative Distribution Data

MEAN 42.82 ST DEV 14.14 DOF 37 CHI2 MAX 43.77 NORMAL 402.57 LOGNOR 38.29 GAMMA 76.89

() NORMAL

(O) LOGNOR

(X) GAMMA

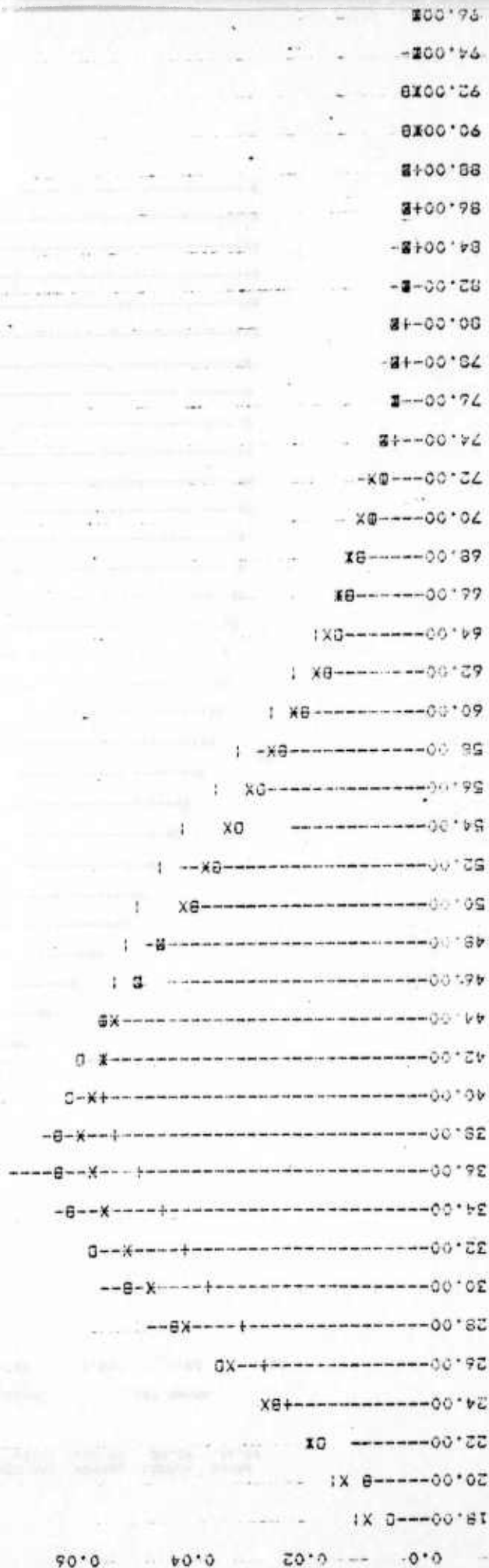


Figure 10d. Histogram for Field C

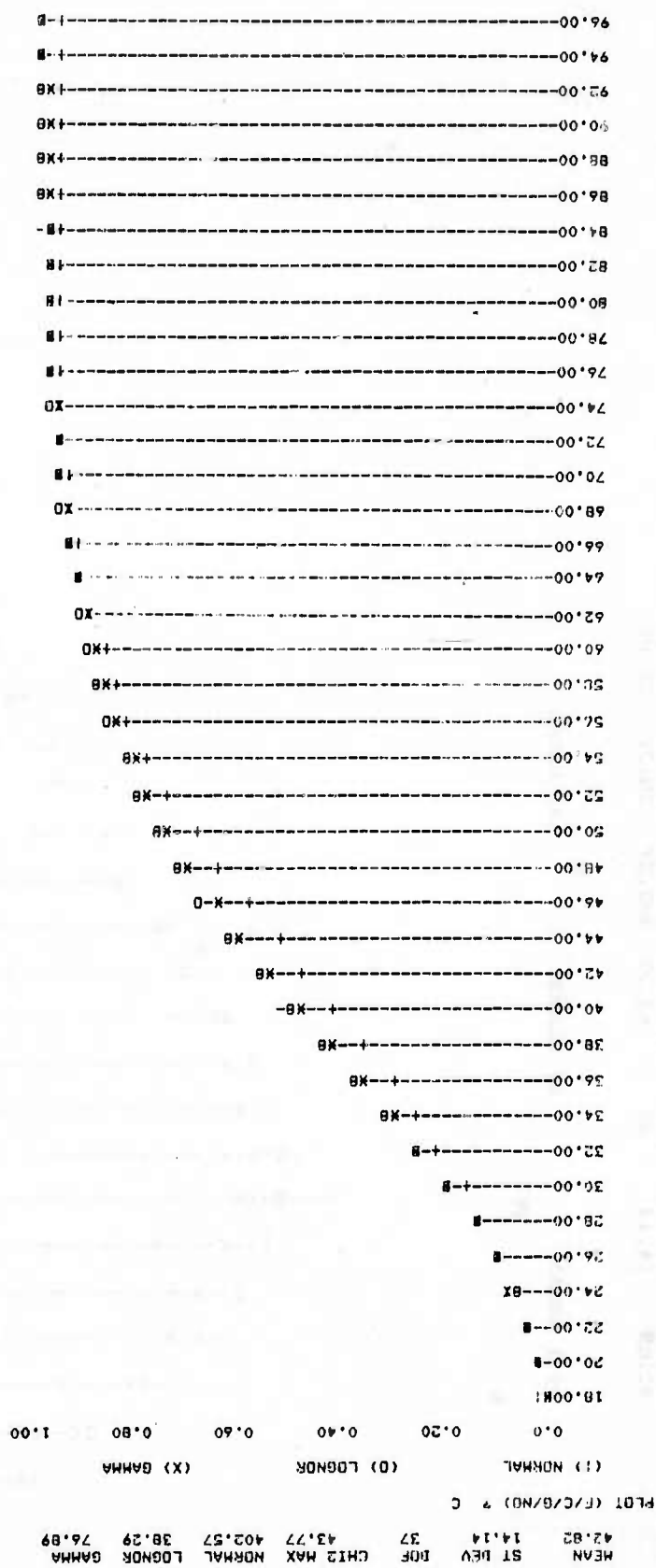


Figure 108a. Cumulative Distribution for Field C

	Field			
	C	N	L	G
18.000	0.005	0.012	0.005	0.010
20.000	0.014	0.027	0.016	0.024
22.000	0.026	0.047	0.034	0.045
24.000	0.052	0.070	0.060	0.073
26.000	0.085	0.098	0.096	0.108
28.000	0.134	0.130	0.141	0.149
30.000	0.189	0.168	0.194	0.197
32.000	0.246	0.210	0.253	0.249
34.000	0.311	0.256	0.315	0.306
36.000	0.382	0.306	0.330	0.364
38.000	0.448	0.360	0.444	0.423
40.000	0.509	0.415	0.507	0.482
42.000	0.564	0.471	0.566	0.539
44.000	0.620	0.527	0.621	0.593
46.000	0.663	0.582	0.672	0.644
48.000	0.711	0.635	0.717	0.690
50.000	0.750	0.685	0.758	0.733
52.000	0.791	0.730	0.794	0.771
54.000	0.814	0.772	0.825	0.805
56.000	0.840	0.808	0.852	0.835
58.000	0.868	0.840	0.875	0.861
60.000	0.889	0.867	0.895	0.883
62.000	0.908	0.889	0.912	0.902
64.000	0.920	0.900	0.926	0.910
66.000	0.934	0.922	0.930	0.931
68.000	0.944	0.934	0.938	0.943
70.000	0.951	0.943	0.957	0.950
72.000	0.961	0.950	0.964	0.959
74.000	0.965	0.955	0.970	0.965
76.000	0.970	0.950	0.974	0.970
78.000	0.975	0.961	0.978	0.974
80.000	0.979	0.963	0.982	0.978
82.000	0.984	0.964	0.984	0.980
84.000	0.988	0.965	0.987	0.982
86.000	0.990	0.965	0.988	0.984
88.000	0.992	0.966	0.990	0.985
90.000	0.994	0.966	0.991	0.986
92.000	0.995	0.966	0.992	0.987
94.000	0.997	0.966	0.993	0.988
96.000	0.997	0.966	0.994	0.988

Figure 108b. Cumulative Distribution Data

MEAN 45.33 ST DEV 15.11 DOF 37 CHI2 MAX 43.77 NORMAL LOGNOR GAMMA 109

0.0 0.02 0.04 0.06 0.08 0.10

(.) NORMAL

(O) LOGNOR

(X) GAMMA

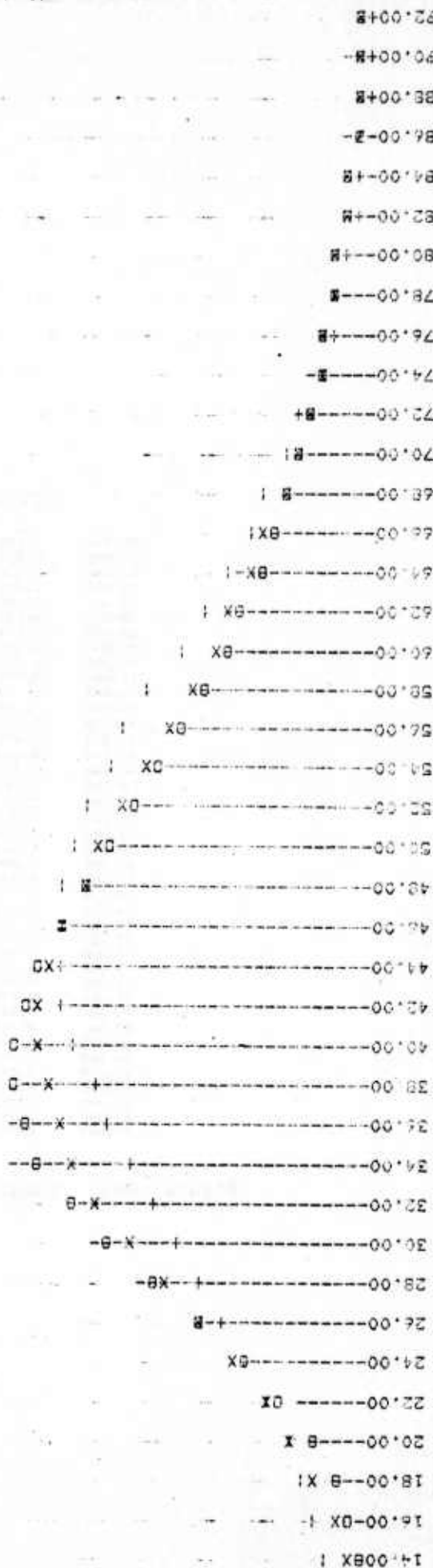


Figure 109. Histogram for Field C

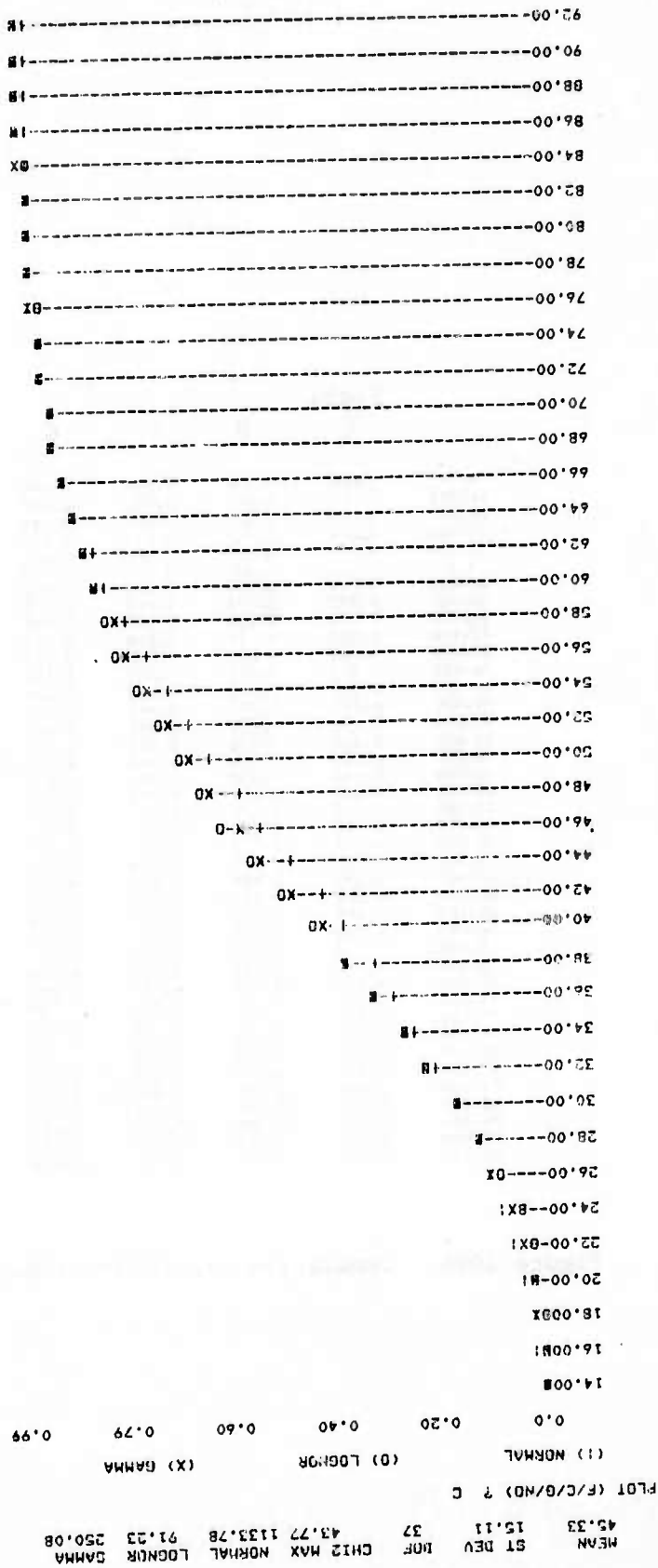


Figure 109a. Cumulative Distribution for Field C

	Field			
	C	N	L	G
14.000	0.000	0.006	0.001	0.002
16.000	0.001	0.014	0.002	0.007
18.000	0.004	0.025	0.006	0.014
20.000	0.011	0.037	0.014	0.025
22.000	0.020	0.054	0.029	0.042
24.000	0.029	0.073	0.049	0.061
26.000	0.069	0.096	0.078	0.083
28.000	0.107	0.124	0.115	0.127
30.000	0.152	0.155	0.159	0.169
32.000	0.202	0.191	0.210	0.213
34.000	0.242	0.231	0.265	0.263
36.000	0.322	0.275	0.324	0.316
38.000	0.379	0.322	0.383	0.370
40.000	0.437	0.371	0.443	0.426
42.000	0.490	0.423	0.501	0.481
44.000	0.543	0.475	0.556	0.534
46.000	0.593	0.528	0.608	0.586
48.000	0.641	0.580	0.656	0.635
50.000	0.683	0.630	0.700	0.680
52.000	0.723	0.678	0.739	0.722
54.000	0.758	0.723	0.775	0.760
56.000	0.791	0.764	0.806	0.794
58.000	0.821	0.801	0.834	0.824
60.000	0.845	0.83	0.858	0.851
62.000	0.868	0.865	0.879	0.874
64.000	0.889	0.887	0.897	0.894
66.000	0.904	0.908	0.913	0.912
68.000	0.919	0.925	0.926	0.927
70.000	0.931	0.939	0.938	0.939
72.000	0.942	0.950	0.947	0.950
74.000	0.953	0.959	0.956	0.959
76.000	0.961	0.966	0.963	0.966
78.000	0.967	0.971	0.969	0.973
80.000	0.974	0.975	0.974	0.978
82.000	0.977	0.977	0.978	0.982
84.000	0.983	0.979	0.981	0.985
86.000	0.986	0.981	0.984	0.988
88.000	0.988	0.982	0.987	0.990
90.000	0.992	0.983	0.989	0.992
92.000	0.993	0.983	0.991	0.993

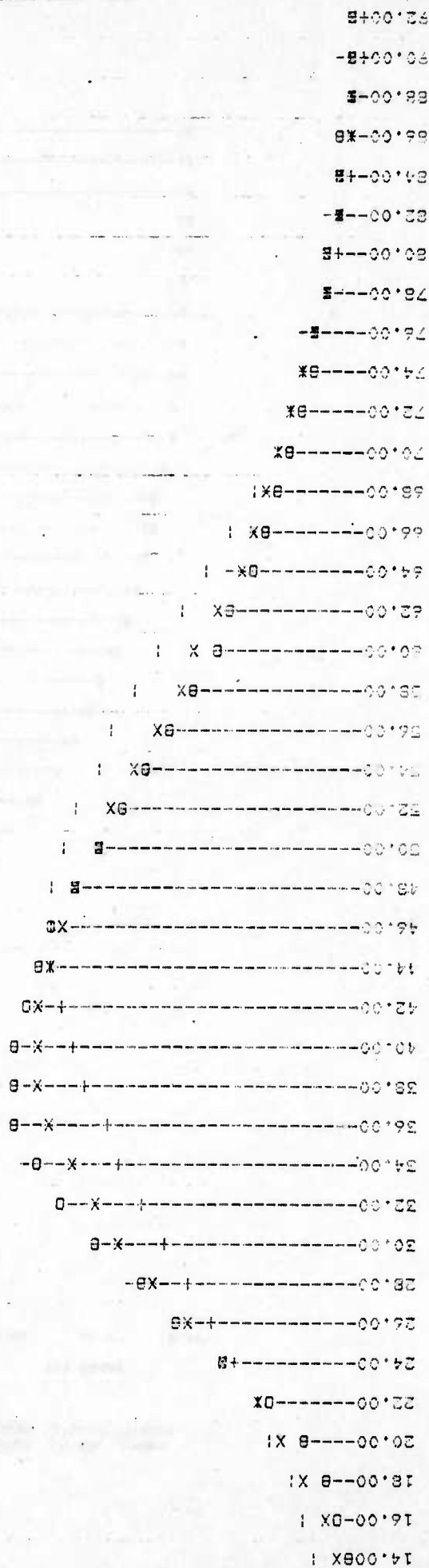
Figure 109b. Cumulative Distribution Data

MEAN 45.52 ST DEV 15.37 DOF 37 CHI2 MAX 43.77 NORMAL LOGNOR GAMMA

(X) GAMMA

(O) LOGNOR

(:) NORMAL



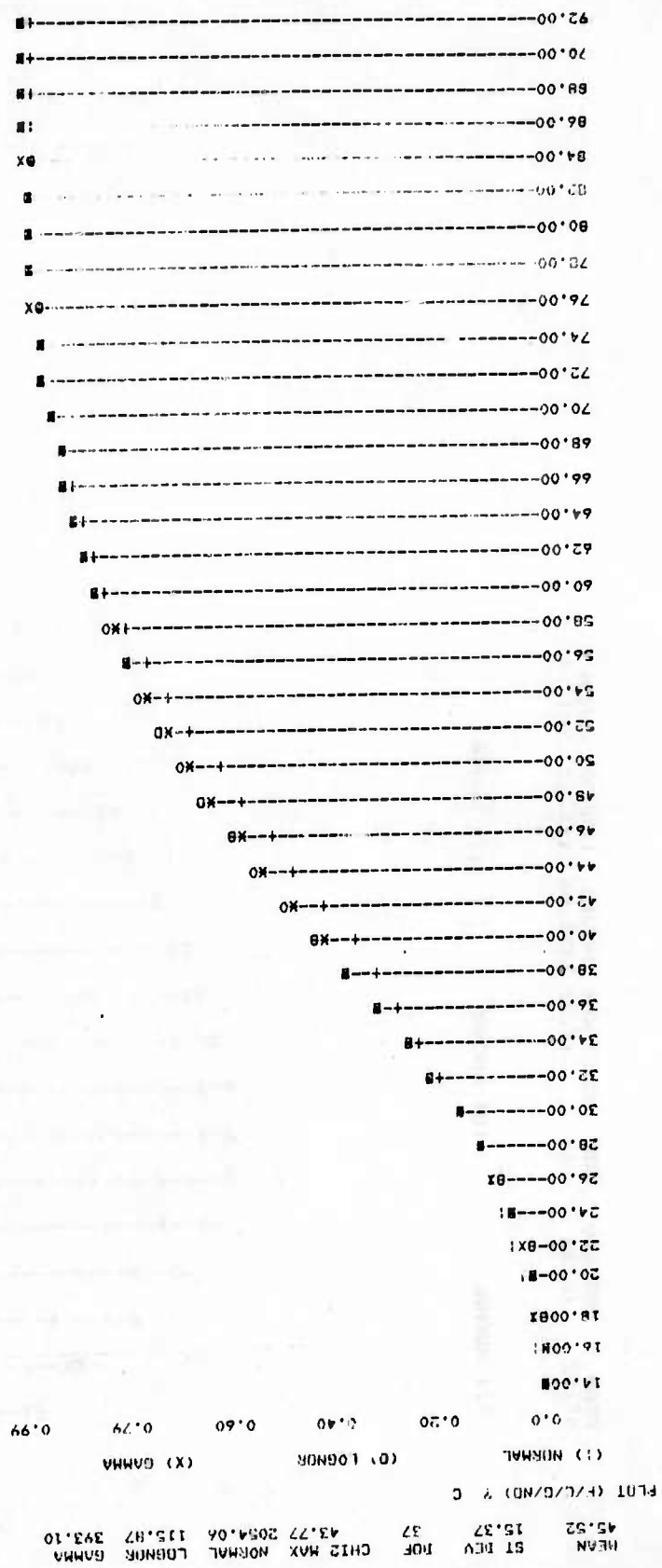


Figure 110a. Cumulative Distribution for Field C

	Field			
	C	N	L	G
14.000	0.000	0.006	0.001	0.002
16.000	0.001	0.015	0.002	0.007
18.000	0.005	0.025	0.007	0.015
20.000	0.012	0.038	0.015	0.026
22.000	0.024	0.054	0.029	0.043
24.000	0.044	0.074	0.050	0.066
26.000	0.074	0.097	0.080	0.094
28.000	0.111	0.124	0.116	0.129
30.000	0.155	0.155	0.161	0.169
32.000	0.203	0.190	0.211	0.214
34.000	0.258	0.230	0.266	0.252
36.000	0.316	0.272	0.323	0.314
38.000	0.374	0.318	0.382	0.368
40.000	0.432	0.367	0.440	0.423
42.000	0.486	0.418	0.497	0.477
44.000	0.540	0.469	0.552	0.530
46.000	0.589	0.521	0.603	0.581
48.000	0.636	0.572	0.650	0.629
50.000	0.677	0.622	0.694	0.674
52.000	0.717	0.669	0.733	0.715
54.000	0.752	0.714	0.769	0.753
56.000	0.785	0.755	0.800	0.787
58.000	0.814	0.792	0.828	0.818
60.000	0.838	0.826	0.852	0.845
62.000	0.861	0.855	0.873	0.869
64.000	0.882	0.880	0.892	0.889
66.000	0.900	0.902	0.908	0.907
68.000	0.916	0.919	0.922	0.922
70.000	0.928	0.934	0.933	0.935
72.000	0.940	0.946	0.944	0.946
74.000	0.950	0.955	0.952	0.956
76.000	0.959	0.963	0.960	0.964
78.000	0.965	0.968	0.966	0.970
80.000	0.972	0.972	0.971	0.975
82.000	0.977	0.975	0.976	0.980
84.000	0.981	0.978	0.979	0.983
86.000	0.985	0.979	0.983	0.986
88.000	0.987	0.980	0.985	0.989
90.000	0.990	0.981	0.988	0.991
92.000	0.992	0.982	0.990	0.992

Figure 110b. Cumulative Distribution Data

604 x c

MEAN 45.92 ST DEV 15.01 DOF 37 CHI2 MAX 43.77 NORMAL 3861.70 LOGNOR 172.58 GAMMA 870.77

0.0 0.02 0.04 0.06 0.08 0.10

(1) NORMAL

(0) LOGNOR

(X) GAMMA

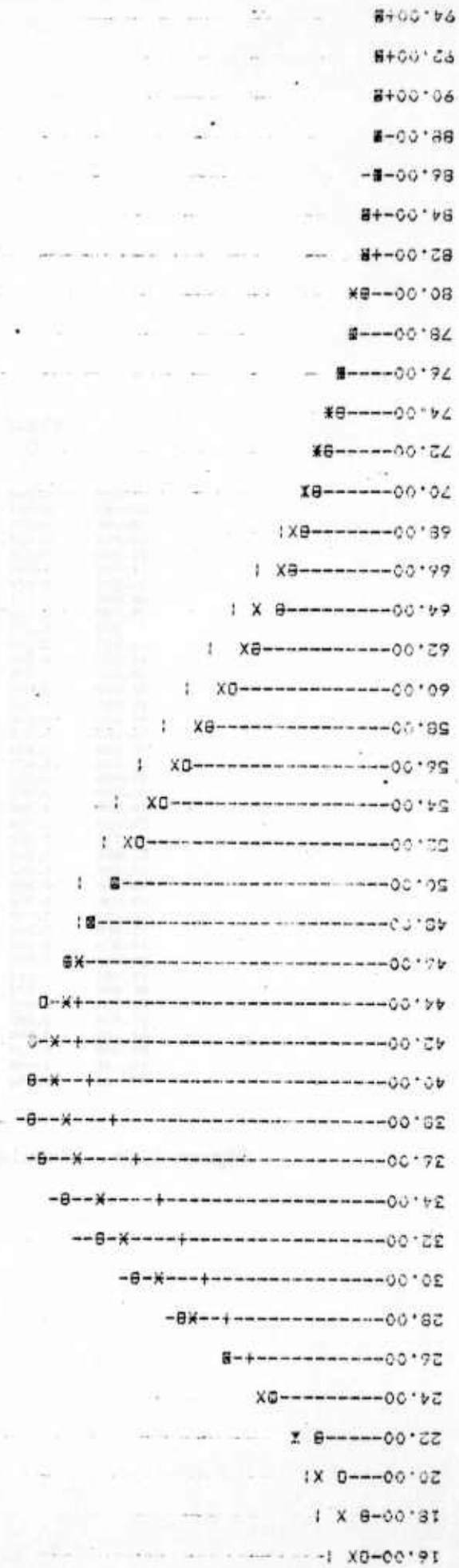


Figure 111. Histogram for Field C

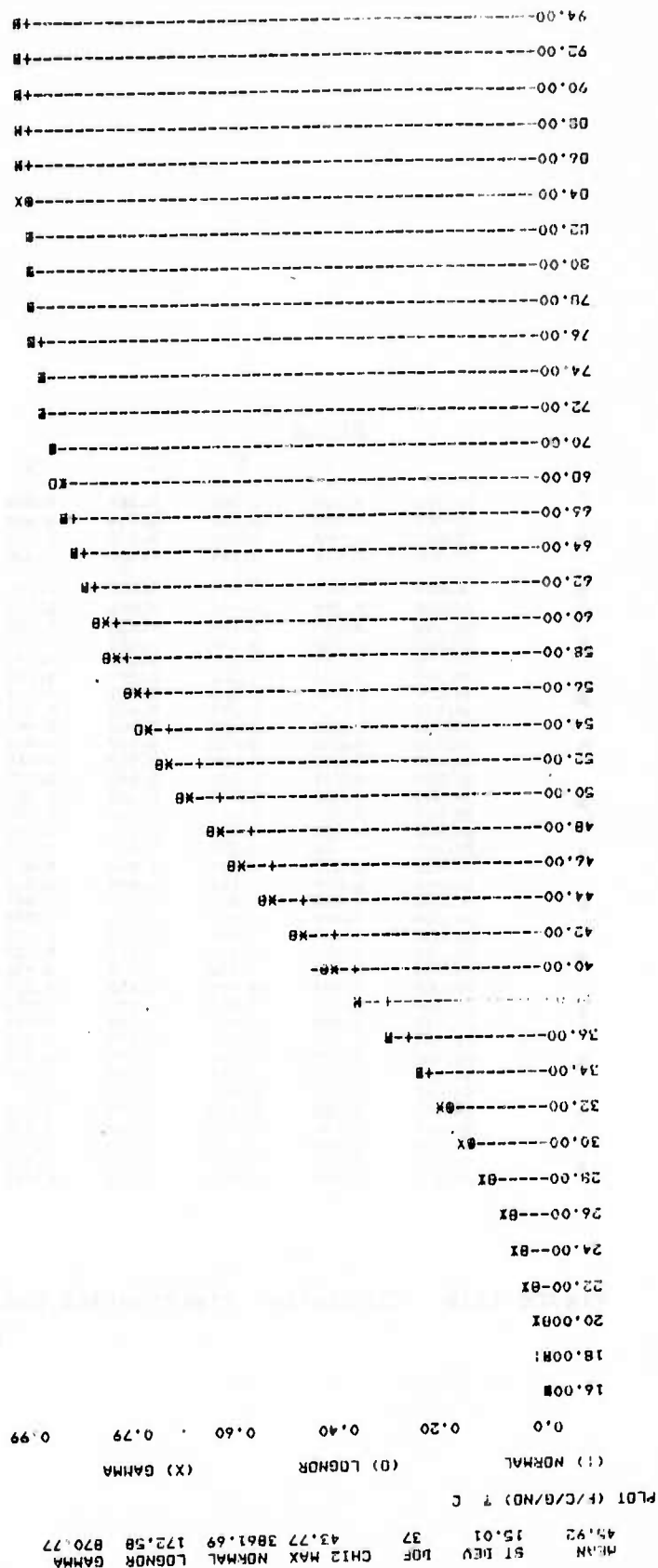


Figure 111a. Cumulative Distribution for Field C

Field				
	C	N	L	G
16.000	0.000	0.007	0.001	0.004
18.000	0.002	0.017	0.004	0.010
20.000	0.004	0.029	0.010	0.020
22.000	0.015	0.044	0.020	0.045
24.000	0.030	0.061	0.030	0.081
26.000	0.057	0.081	0.043	0.081
28.000	0.093	0.110	0.096	0.114
30.000	0.138	0.140	0.138	0.152
32.000	0.189	0.175	0.186	0.196
34.000	0.246	0.214	0.240	0.244
36.000	0.306	0.256	0.299	0.296
38.000	0.367	0.303	0.359	0.351
40.000	0.427	0.352	0.420	0.406
42.000	0.485	0.403	0.480	0.462
44.000	0.542	0.456	0.537	0.516
46.000	0.597	0.509	0.592	0.569
48.000	0.644	0.562	0.642	0.619
50.000	0.687	0.613	0.689	0.665
52.000	0.727	0.662	0.730	0.709
54.000	0.763	0.708	0.768	0.748
56.000	0.795	0.750	0.801	0.783
58.000	0.825	0.789	0.830	0.815
60.000	0.849	0.823	0.855	0.843
62.000	0.872	0.853	0.877	0.867
64.000	0.890	0.879	0.896	0.889
66.000	0.906	0.900	0.913	0.907
68.000	0.920	0.918	0.927	0.923
70.000	0.933	0.933	0.938	0.936
72.000	0.944	0.945	0.948	0.947
74.000	0.953	0.954	0.957	0.956
76.000	0.960	0.961	0.964	0.964
78.000	0.967	0.967	0.970	0.970
80.000	0.972	0.971	0.975	0.976
82.000	0.977	0.974	0.979	0.980
84.000	0.981	0.976	0.982	0.983
86.000	0.985	0.977	0.985	0.986
88.000	0.987	0.978	0.988	0.988
90.000	0.990	0.979	0.990	0.990
92.000	0.992	0.979	0.992	0.992
94.000	0.993	0.980	0.993	0.993

Figure 111b. Cumulative Distribution Data

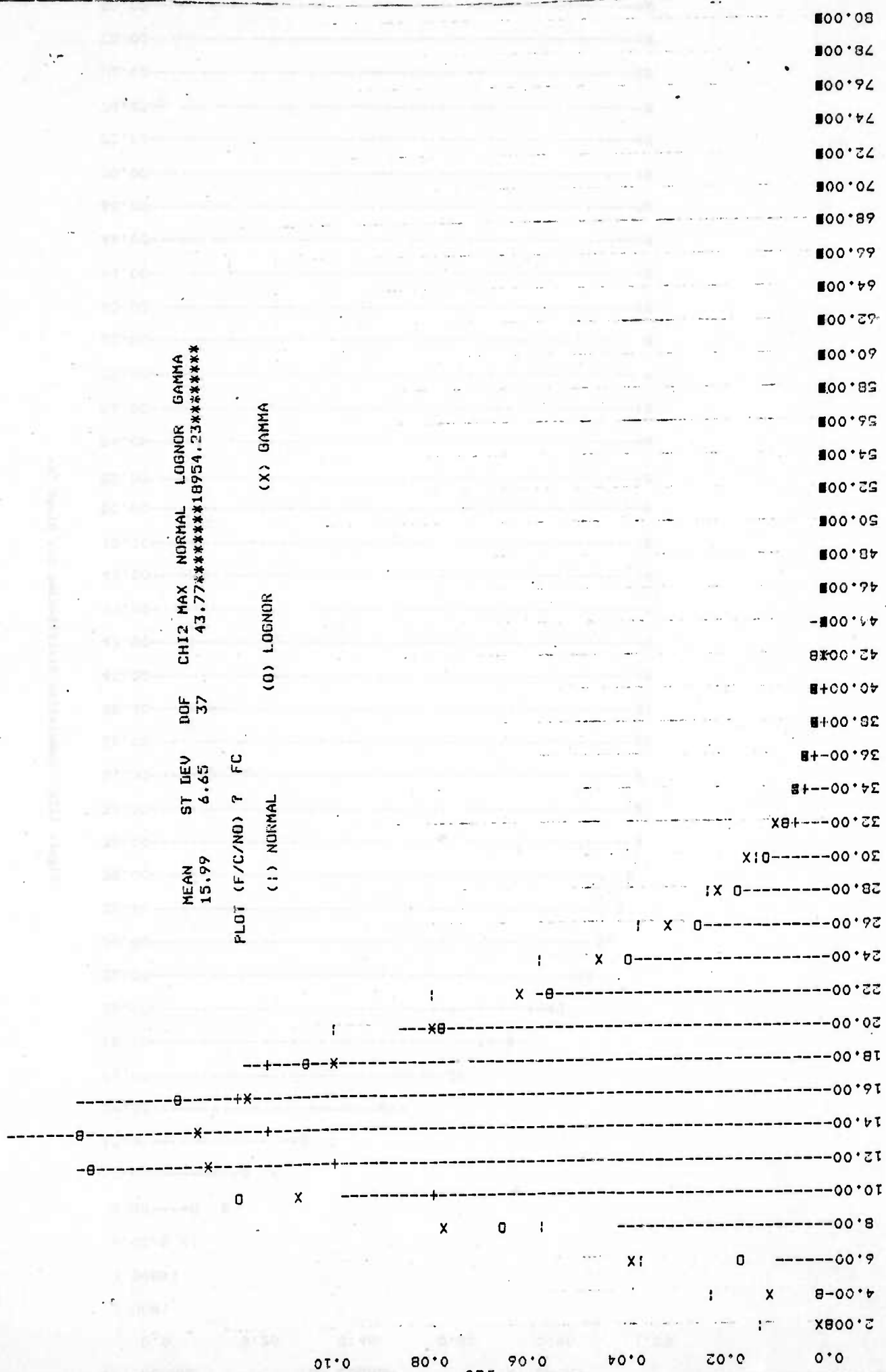


Figure 112. Histogram for Black Ice

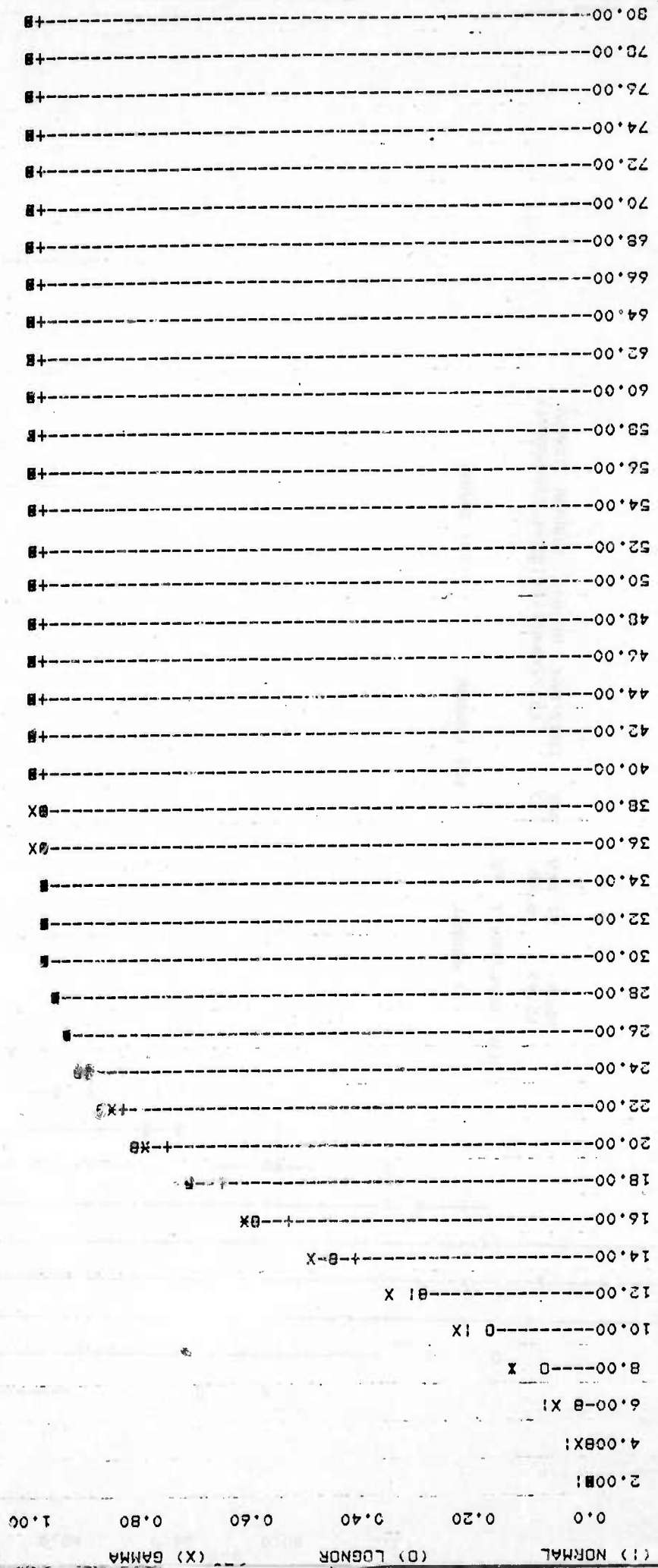


Figure 112a. Cumulative Distribution for Black Ice

	ICE	N	L	G
2.00	0.000	0.013	0.000	0.001
4.00	0.002	0.037	0.002	0.014
6.00	0.013	0.076	0.021	0.055
8.00	0.055	0.134	0.079	0.132
10.00	0.153	0.214	0.175	0.241
12.00	0.304	0.314	0.303	0.367
14.00	0.471	0.429	0.455	0.495
16.00	0.622	0.548	0.603	0.613
18.00	0.740	0.662	0.727	0.713
20.00	0.825	0.762	0.818	0.794
22.00	0.882	0.842	0.882	0.856
24.00	0.920	0.900	0.922	0.902
26.00	0.945	0.939	0.947	0.935
28.00	0.961	0.963	0.963	0.957
30.00	0.972	0.976	0.973	0.972
32.00	0.979	0.983	0.980	0.983
34.00	0.984	0.986	0.984	0.989
36.00	0.987	0.987	0.987	0.993
38.00	0.990	0.988	0.990	0.996
40.00	0.992	0.988	0.991	0.998
42.00	0.993	0.988	0.993	0.999
44.00	0.994	0.988	0.994	0.999
46.00	0.995	0.988	0.995	0.999
48.00	0.996	0.988	0.996	1.000
50.00	0.997	0.988	0.996	1.000
52.00	0.997	0.988	0.997	1.000
54.00	0.998	0.988	0.997	1.000
56.00	0.998	0.988	0.998	1.000
58.00	0.998	0.988	0.998	1.000
60.00	0.999	0.988	0.998	1.000
62.00	0.999	0.988	0.999	1.000
64.00	0.999	0.988	0.999	1.000
66.00	0.999	0.988	0.999	1.000
68.00	0.999	0.988	0.999	1.000
70.00	0.999	0.988	0.999	1.000
72.00	0.999	0.988	0.999	1.000
74.00	0.999	0.988	0.999	1.000
76.00	1.000	0.988	0.999	1.000
78.00	1.000	0.988	1.000	1.000
80.00	1.000	0.988	1.000	1.000

Figure 112b. Cumulative Distribution Data

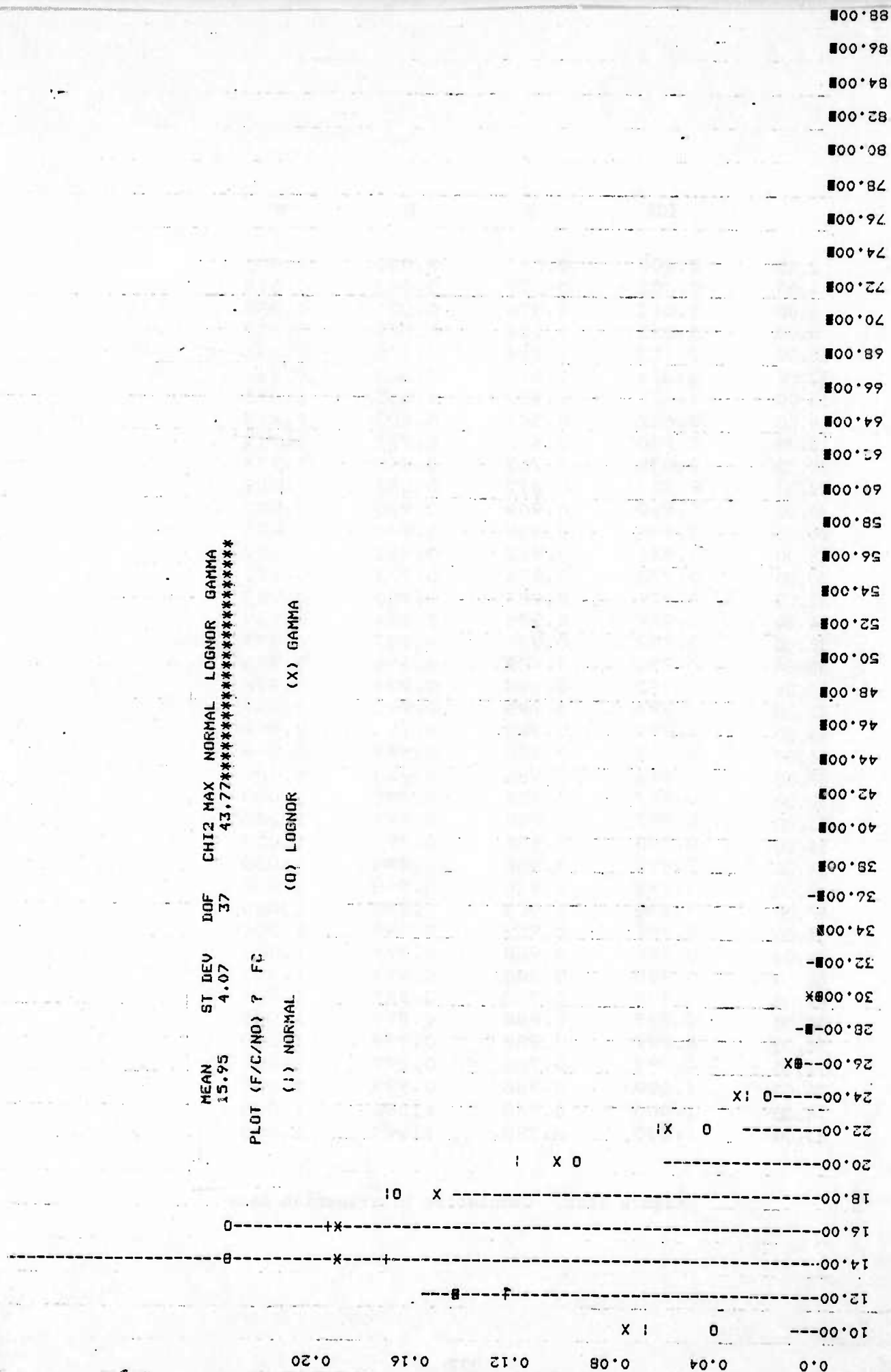


Figure 113. Histogram for Black Ice

(1) NORMAL 0.0 0.20 0.40 0.60 0.80 1.00
 (0) LOGNOR
 (X) GAMMA

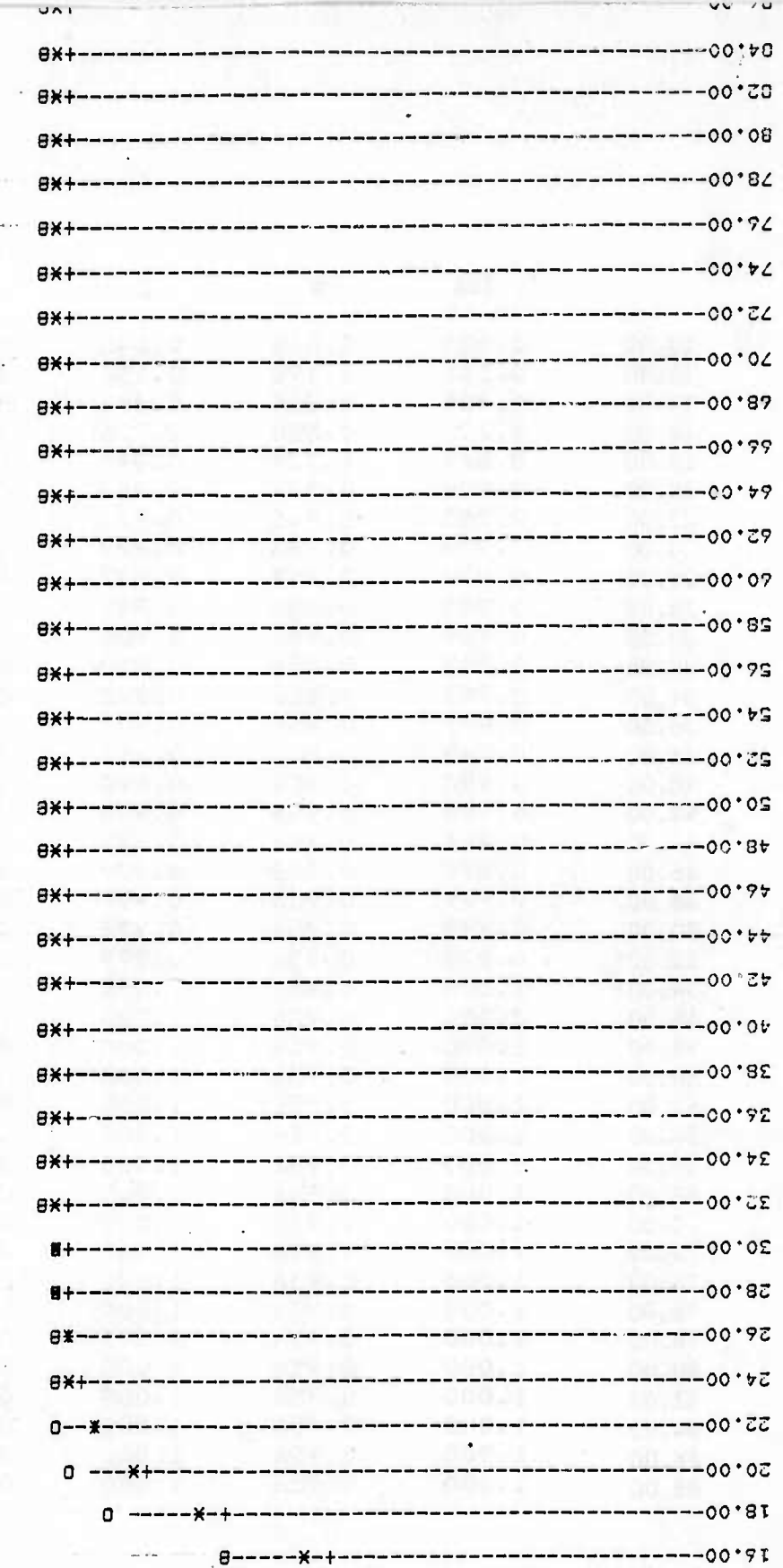


Figure 113a. Cumulative Distribution for Black Ice

	ICE	N	L	G
10.00	0.008	0.068	0.042	0.074
12.00	0.164	0.190	0.152	0.220
14.00	0.489	0.364	0.401	0.414
16.00	0.723	0.558	0.726	0.607
18.00	0.869	0.729	0.891	0.760
20.00	0.928	0.849	0.963	0.862
22.00	0.955	0.915	0.972	0.921
24.00	0.970	0.943	0.973	0.952
26.00	0.978	0.953	0.977	0.965
28.00	0.985	0.956	0.981	0.971
30.00	0.989	0.956	0.986	0.974
32.00	0.992	0.956	0.990	0.975
34.00	0.993	0.956	0.992	0.975
36.00	0.997	0.956	0.993	0.975
38.00	0.998	0.956	0.997	0.975
40.00	0.998	0.956	0.998	0.975
42.00	0.998	0.956	0.998	0.975
44.00	0.999	0.956	0.998	0.975
46.00	0.999	0.956	0.999	0.975
48.00	0.999	0.956	0.999	0.975
50.00	0.999	0.956	0.999	0.975
52.00	0.999	0.956	0.999	0.975
54.00	1.000	0.956	0.999	0.975
56.00	1.000	0.956	1.000	0.975
58.00	1.000	0.956	1.000	0.975
60.00	1.000	0.956	1.000	0.975
62.00	1.000	0.956	1.000	0.975
64.00	1.000	0.956	1.000	0.975
66.00	1.000	0.956	1.000	0.975
68.00	1.000	0.956	1.000	0.975
70.00	1.000	0.956	1.000	0.975
72.00	1.000	0.956	1.000	0.975
74.00	1.000	0.956	1.000	0.975
76.00	1.000	0.956	1.000	0.975
78.00	1.000	0.956	1.000	0.975
80.00	1.000	0.956	1.000	0.975
82.00	1.000	0.956	1.000	0.975
84.00	1.000	0.956	1.000	0.975
86.00	1.000	0.956	1.000	0.975
88.00	1.000	0.956	1.000	0.975

Figure 113b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.83	2.94	9	16.92*****	798.46	1131.54	

PLOT (F/C/NO) ? FC

() NORMAL

(O) LOGNOR

(X) GAMMA

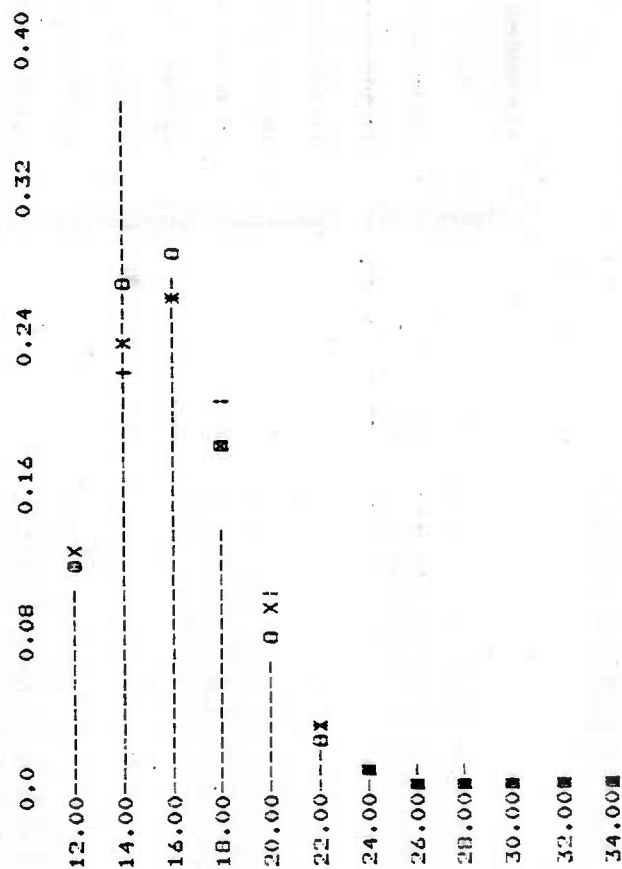


Figure 114. Histogram for Black Ice

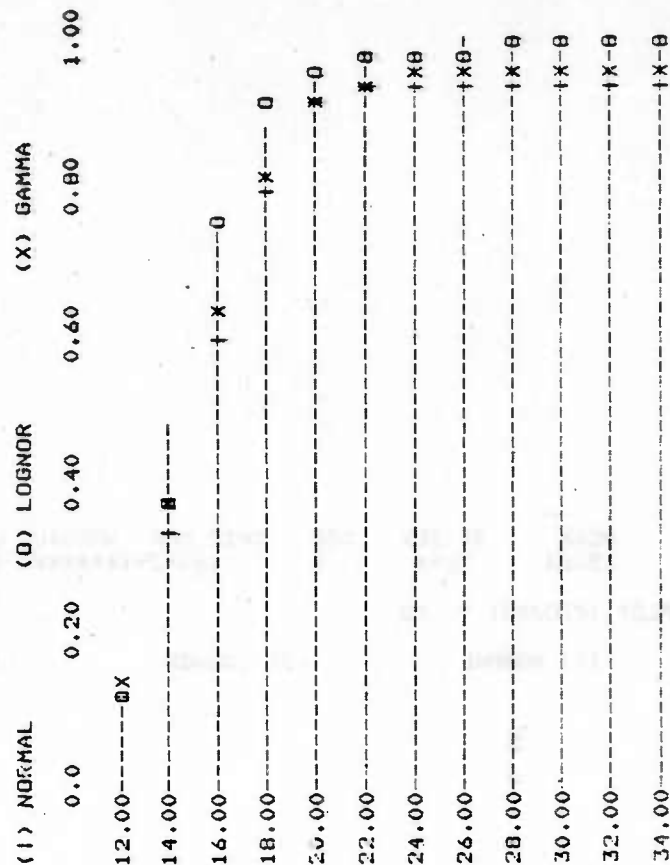


Figure 114a. Cumulative Distribution for Black Ice

	ICE	N	L	G
12.00	0.107	0.118	0.120	0.130
14.00	0.473	0.339	0.376	0.374
16.00	0.743	0.605	0.761	0.637
18.00	0.880	0.810	0.927	0.822
20.00	0.945	0.911	0.961	0.914
22.00	0.973	0.943	0.973	0.949
24.00	0.982	0.949	0.981	0.960
26.00	0.991	0.950	0.984	0.962
28.00	0.995	0.950	0.991	0.963
30.00	0.998	0.950	0.996	0.963
32.00	0.998	0.950	0.998	0.963
34.00	1.000	0.950	0.998	0.963

Figure 114b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.64	2.42	5	11.07	167.75	29.80	33.62

PLOT (F/C/NO) ? FC

(1) NORMAL (0) LOGNOR (X) GAMMA

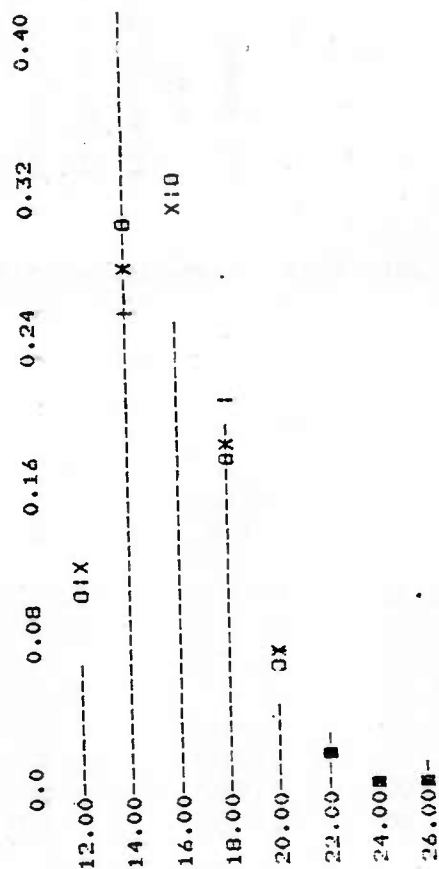


Figure 115. Histogram for Black Ice

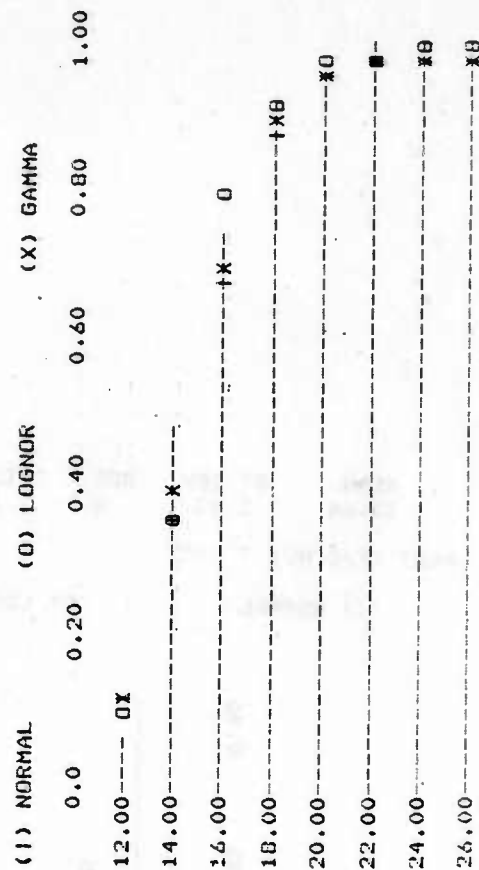


Figure 115a. Cumulative Distribution for Black Ice

	Black Ice	N	L	G
12.00	0.067	0.110	0.106	0.116
14.00	0.483	0.368	0.367	0.396
16.00	0.733	0.685	0.810	0.706
18.00	0.925	0.889	0.913	0.893
20.00	0.967	0.959	0.986	0.962
22.00	0.992	0.971	0.981	0.978
24.00	0.992	0.972	0.994	0.981
26.00	1.000	0.972	0.992	0.982

Figure 115b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
14.68	4.76	15	25.00	510.61	272.92	54.36

PLOT (F/C/NO) ? F

(1) NORMAL

(0) LOGNOR

(X) GAMMA

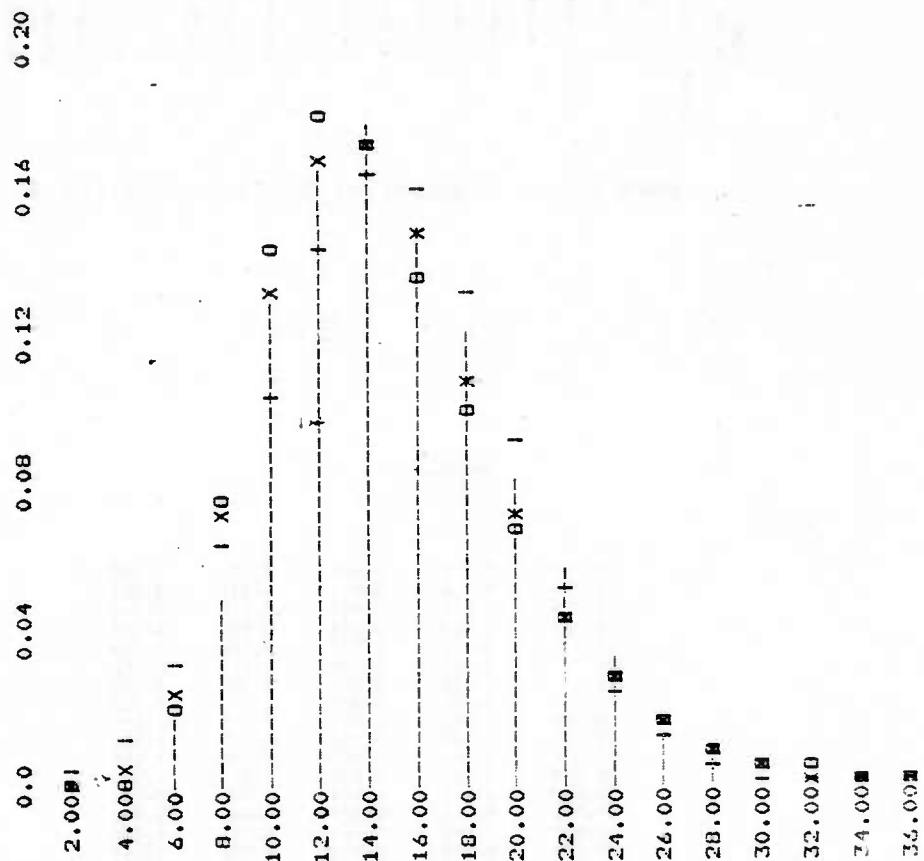


Figure 116. Histogram for Black Ice

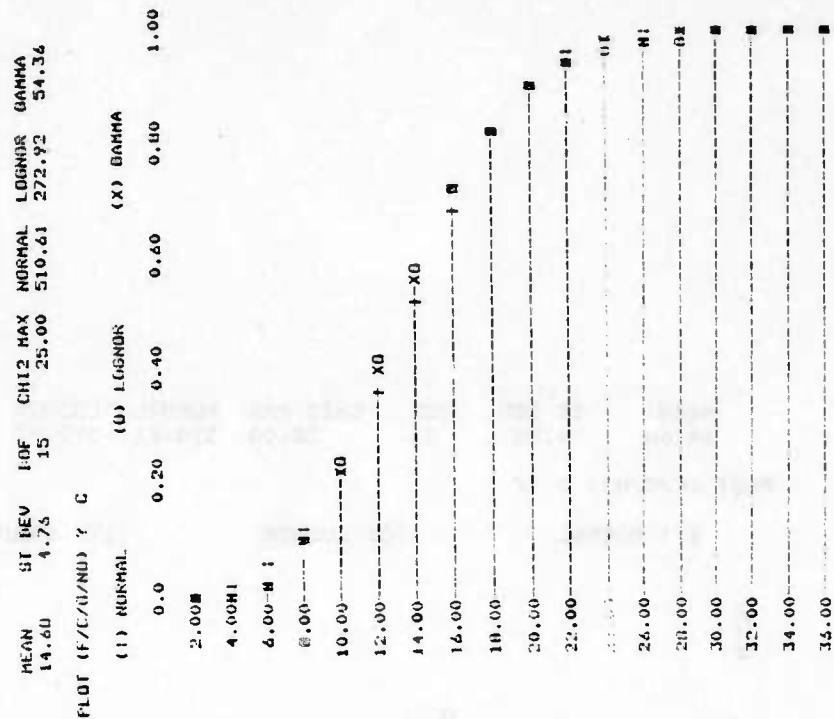


Figure 116a. Cumulative Distribution for Black Ice

	Black Ice	N	L	G
2.000	0.000	0.005	0.000	0.000
4.000	0.002	0.019	0.001	0.003
6.000	0.017	0.051	0.019	0.027
8.000	0.065	0.114	0.094	0.099
10.000	0.175	0.217	0.239	0.230
12.000	0.358	0.360	0.418	0.398
14.000	0.535	0.524	0.589	0.569
16.000	0.683	0.605	0.726	0.716
18.000	0.802	0.616	0.825	0.825
20.000	0.880	0.906	0.892	0.899
22.000	0.934	0.958	0.935	0.945
24.000	0.955	0.983	0.961	0.972
26.000	0.983	0.993	0.977	0.986
28.000	0.991	0.997	0.986	0.993
30.000	0.995	0.998	0.992	0.997
32.000	0.998	0.998	0.995	0.999
34.000	0.999	0.998	0.997	0.999
36.000	1.000	0.998	0.998	1.000

Figure 116b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
15.91	6.65	15	25.00	4040.25	919.01	2236.19

PLOT (F/C/NO) ? F

() NORMAL (O) LOGNOR (X) GAMMA

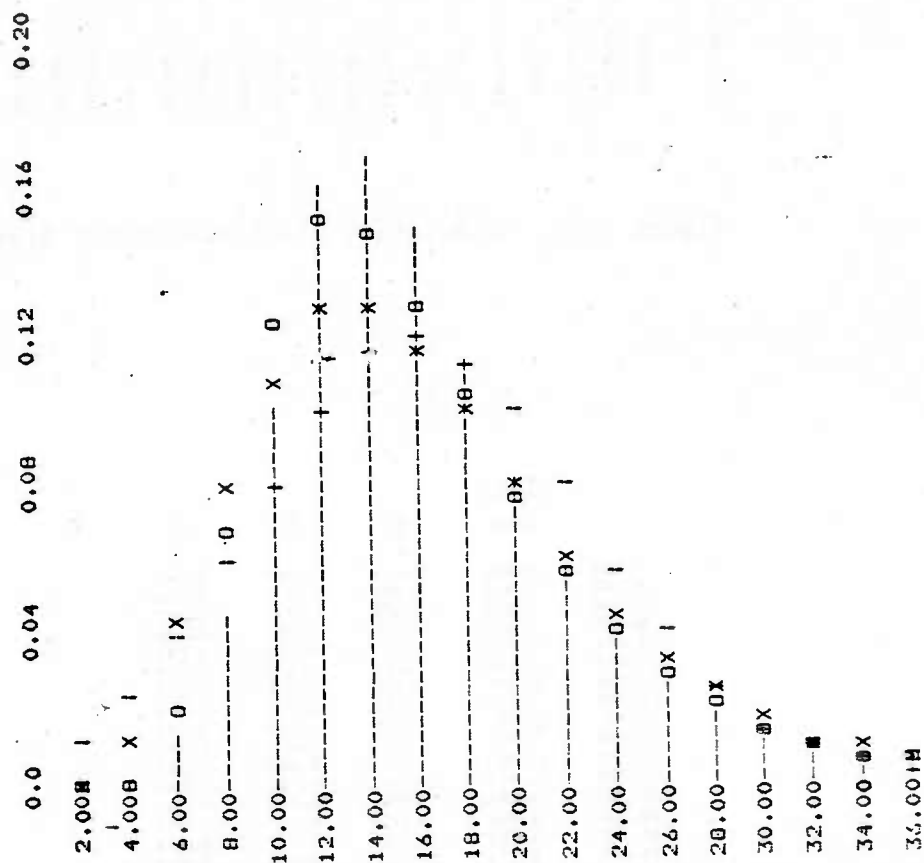


Figure 117. Histogram for Black Ice

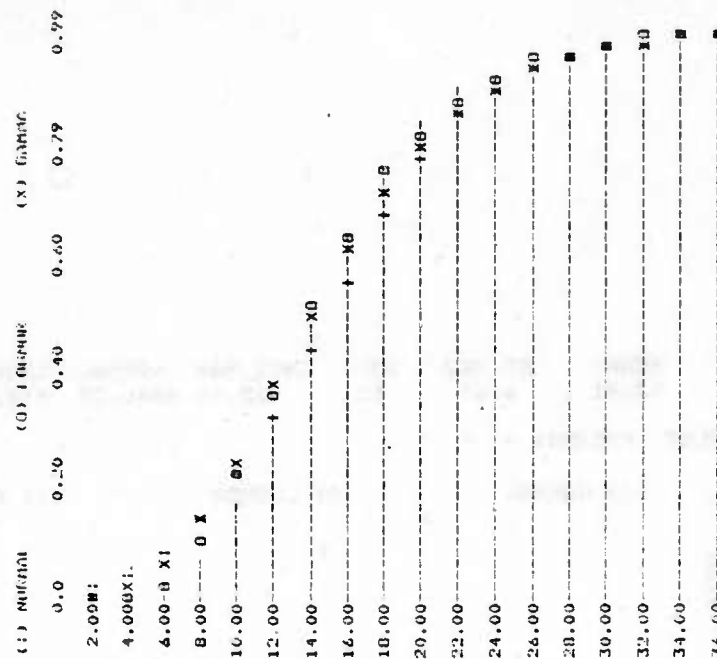


Figure 117a. Cumulative Distribution for Black Ice

	Black Ice	N	L	G
2.000	0.000	0.014	0.000	0.001
4.000	0.002	0.038	0.002	0.015
6.000	0.015	0.078	0.023	0.057
8.000	0.059	0.137	0.093	0.136
10.000	0.159	0.210	0.215	0.245
12.000	0.320	0.318	0.365	0.372
14.000	0.486	0.433	0.515	0.500
16.000	0.633	0.553	0.644	0.618
18.000	0.747	0.667	0.747	0.718
20.000	0.829	0.766	0.824	0.798
22.000	0.884	0.845	0.880	0.859
24.000	0.919	0.902	0.919	0.904
26.000	0.943	0.940	0.945	0.936
28.000	0.958	0.963	0.963	0.958
30.000	0.968	0.976	0.975	0.973
32.000	0.976	0.983	0.984	0.983
34.000	0.980	0.986	0.989	0.989
36.000	0.984	0.987	0.993	0.993

Figure 117b. Cumulative Distribution Data

MEAN 26.83 ST DEV 10.56 DOF 37 CHI2 MAX 3404.75 LOGNOR GAMMA 43.77***** 3404.75 4328.34

PLOT (F/C/NO) ? F

(1) NORMAL

(0) LOGNOR

(X) GAMMA

0.0 0.04 0.08 0.12 0.16 0.20

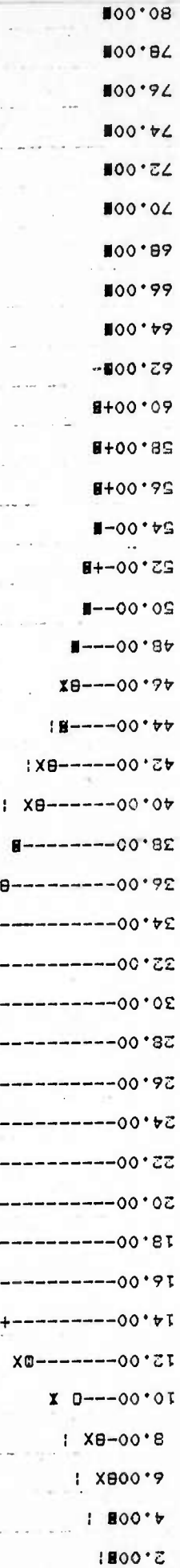


Figure 118. Histogram for Tundra

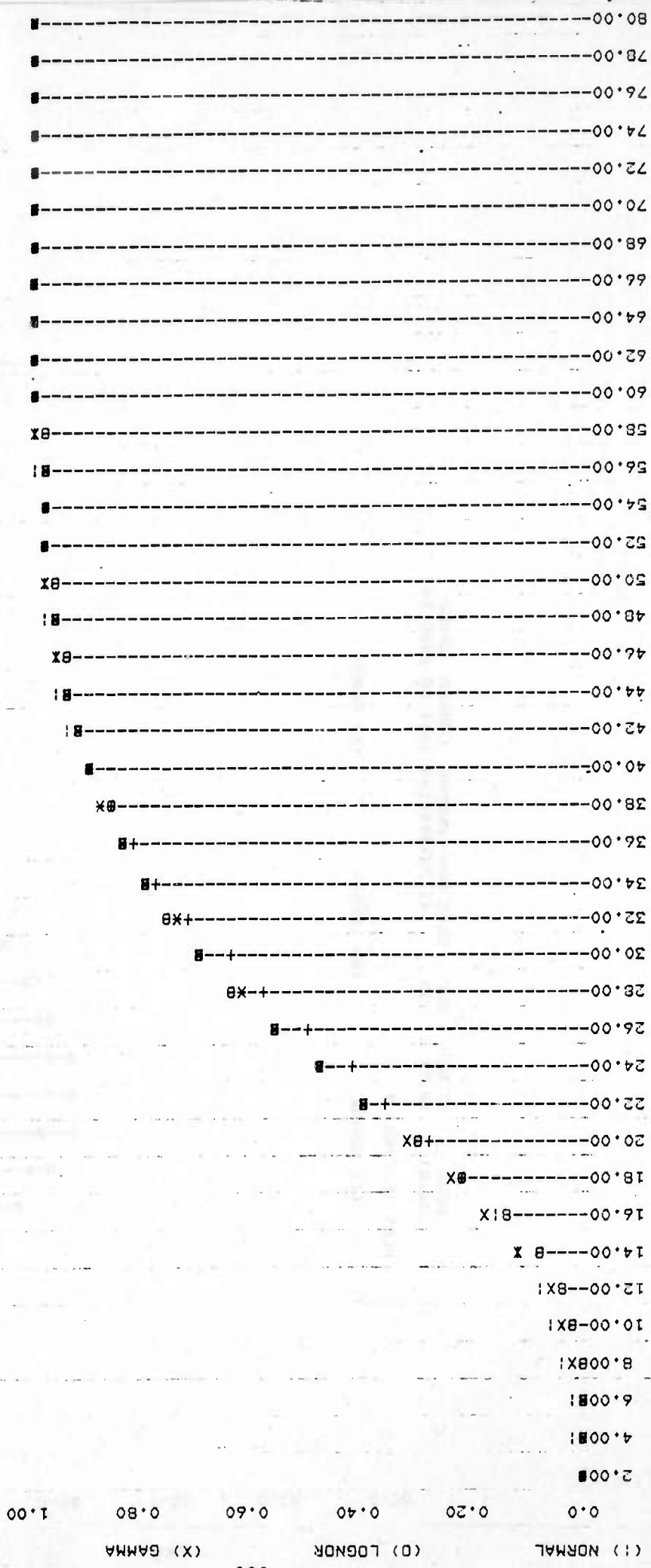


Figure 118a. Cumulative Distribution for Tundra

	Tundra	N	L	G
2.00	0.000	0.005	0.000	0.000
4.00	0.000	0.012	0.000	0.001
6.00	0.000	0.023	0.000	0.004
8.00	0.003	0.038	0.004	0.014
10.00	0.012	0.060	0.015	0.033
12.00	0.035	0.088	0.040	0.066
14.00	0.078	0.124	0.083	0.113
16.00	0.140	0.169	0.144	0.173
18.00	0.217	0.222	0.220	0.244
20.00	0.304	0.283	0.305	0.321
22.00	0.393	0.351	0.394	0.402
24.00	0.481	0.424	0.479	0.482
26.00	0.562	0.499	0.561	0.559
28.00	0.636	0.574	0.633	0.630
30.00	0.699	0.646	0.698	0.694
32.00	0.754	0.713	0.752	0.750
34.00	0.801	0.773	0.799	0.798
36.00	0.839	0.825	0.837	0.839
38.00	0.871	0.868	0.869	0.873
40.00	0.896	0.903	0.895	0.901
42.00	0.917	0.930	0.916	0.923
44.00	0.934	0.950	0.933	0.941
46.00	0.948	0.965	0.947	0.955
48.00	0.959	0.975	0.958	0.966
50.00	0.967	0.982	0.967	0.974
52.00	0.974	0.986	0.974	0.981
54.00	0.980	0.989	0.979	0.986
56.00	0.985	0.991	0.984	0.990
58.00	0.988	0.992	0.988	0.992
60.00	0.991	0.992	0.990	0.994
62.00	0.993	0.992	0.993	0.996
64.00	0.994	0.993	0.994	0.997
66.00	0.996	0.993	0.996	0.998
68.00	0.997	0.993	0.997	0.998
70.00	0.998	0.993	0.998	0.999
72.00	0.998	0.993	0.998	0.999
74.00	0.999	0.993	0.999	0.999
76.00	0.999	0.993	0.999	1.000
78.00	0.999	0.993	0.999	1.000
80.00	0.999	0.993	0.999	1.000

Figure 118b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
26.70	6.76	18	28.87	152.83	51.80	39.48

PLOT (S/C/NO) ? FC

(1) NORMAL

(0) LOGNOR

(X) GAMMA

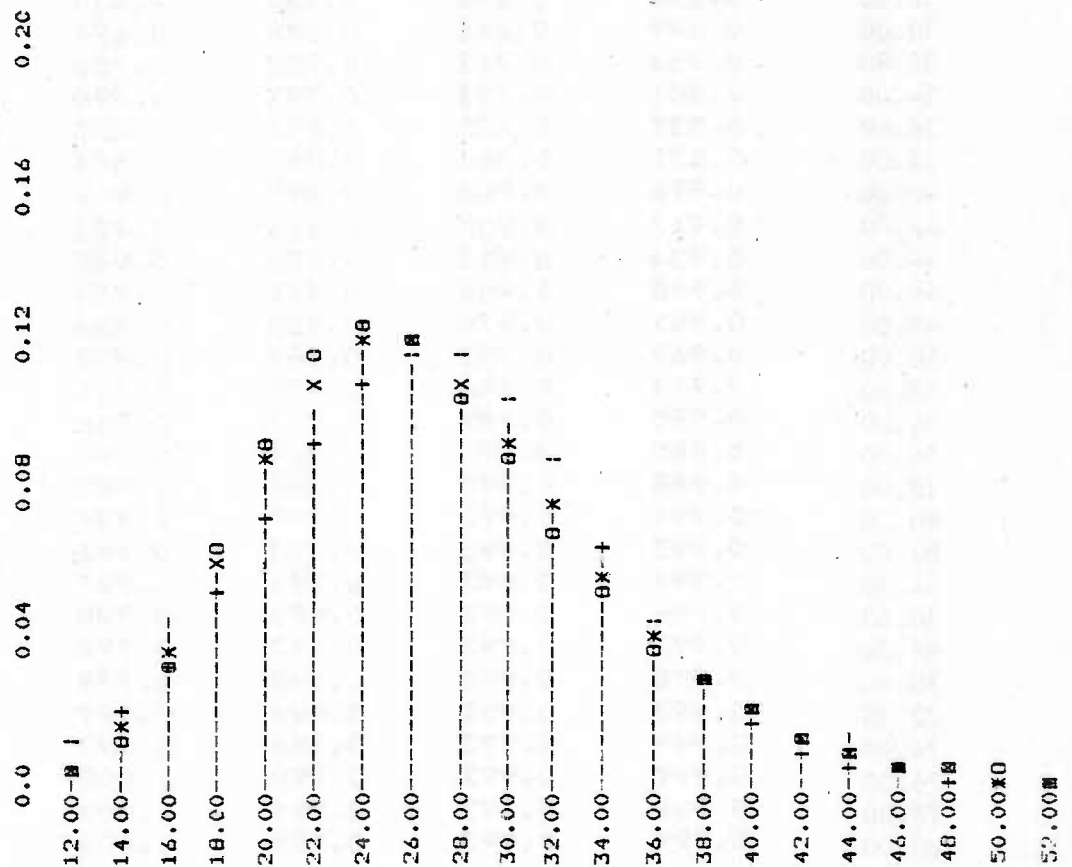


Figure 119. Histogram for Tundra

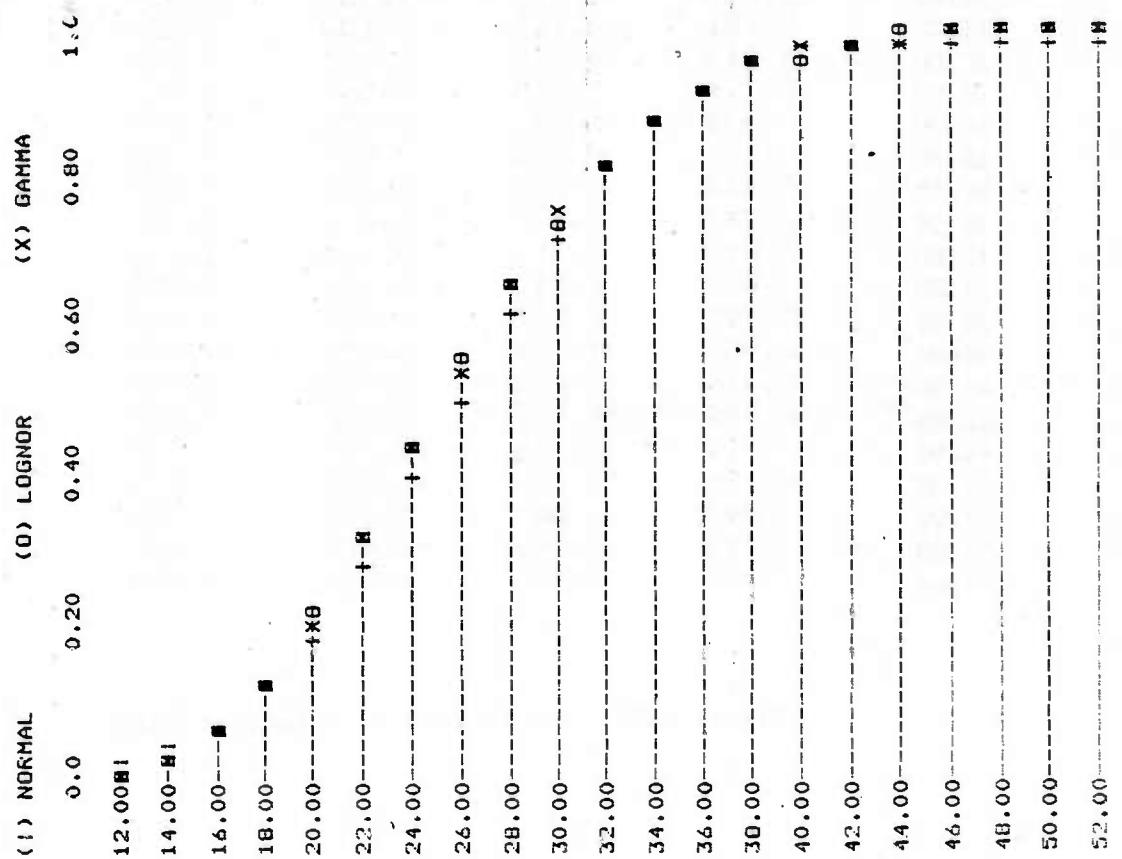


Figure 119a. Cumulative Distribution for Tundra

	Tundra	N	L	G
12.00	0.001	0.011	0.003	0.006
14.00	0.020	0.032	0.014	0.022
16.00	0.066	0.066	0.054	0.057
18.00	0.121	0.117	0.130	0.117
20.00	0.213	0.190	0.215	0.203
22.00	0.314	0.282	0.329	0.311
24.00	0.438	0.391	0.438	0.430
26.00	0.551	0.508	0.557	0.550
28.00	0.653	0.623	0.657	0.659
30.00	0.747	0.727	0.741	0.753
32.00	0.825	0.814	0.816	0.827
34.00	0.887	0.880	0.877	0.884
36.00	0.929	0.926	0.925	0.924
38.00	0.951	0.955	0.955	0.952
40.00	0.969	0.973	0.970	0.970
42.00	0.982	0.982	0.981	0.982
44.00	0.993	0.986	0.990	0.989
46.00	0.996	0.989	0.998	0.993
48.00	0.997	0.989	0.999	0.995
50.00	0.998	0.990	1.000	0.997
52.00	1.000	0.990	1.000	0.998

Figure 119b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
26.26	5.97	12	21.03	13.44	23.46	18.54

PLOT (F/C/NO) ? FC

(1) NORMAL

(0) LOGNOR

(X) GAMMA

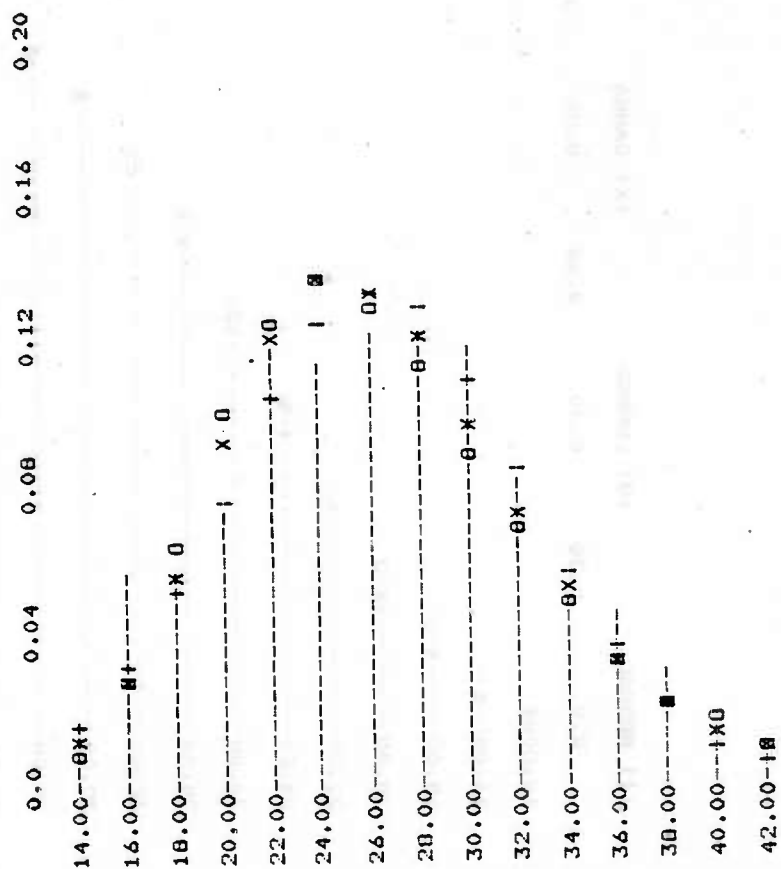


Figure 120. Histogram for Tundra

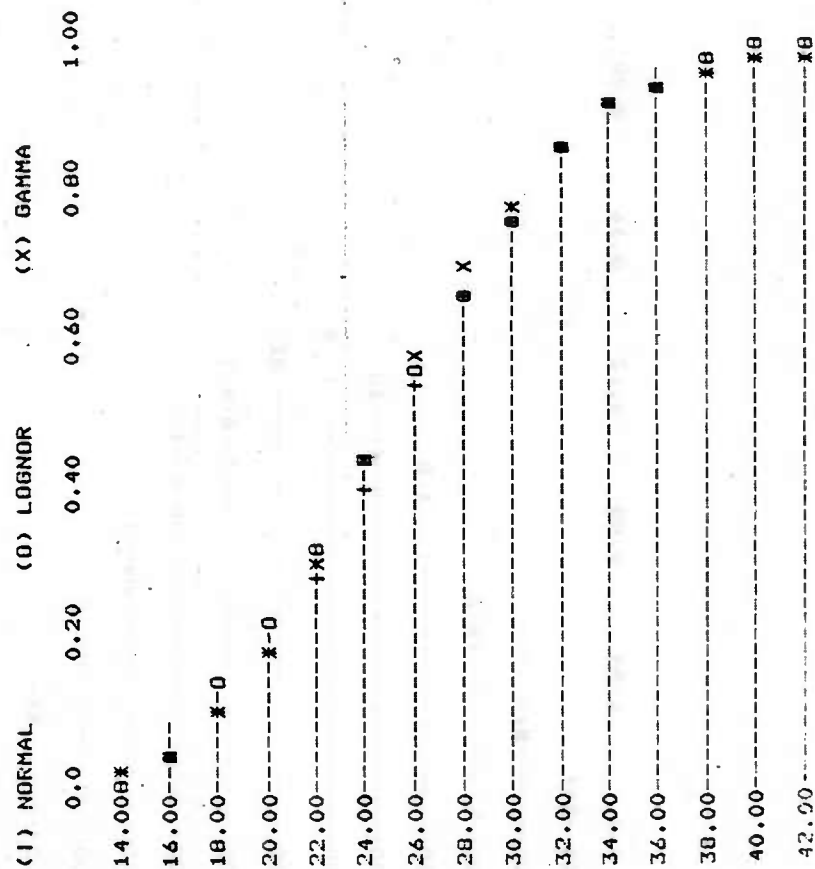


Figure 120a. Cumulative Distribution for Tundra

	Tundra	N	L	G
14.00	0.016	0.016	0.010	0.011
16.00	0.070	0.047	0.046	0.040
18.00	0.127	0.099	0.133	0.098
20.00	0.200	0.176	0.225	0.188
22.00	0.316	0.279	0.325	0.307
24.00	0.430	0.403	0.451	0.441
26.00	0.550	0.536	0.559	0.575
28.00	0.670	0.664	0.662	0.694
30.00	0.786	0.773	0.760	0.792
32.00	0.866	0.857	0.854	0.865
34.00	0.914	0.915	0.914	0.916
36.00	0.957	0.951	0.947	0.949
38.00	0.984	0.970	0.979	0.970
40.00	0.995	0.980	0.998	0.982
42.00	1.000	0.984	1.004	0.989

Figure 120b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
25.58	5.63	9	16.92	21.48	24.33	24.05

PLOT (F/C/NO) ? FC

(.) NORMAL (O) LOGNOR (X) GAMMA

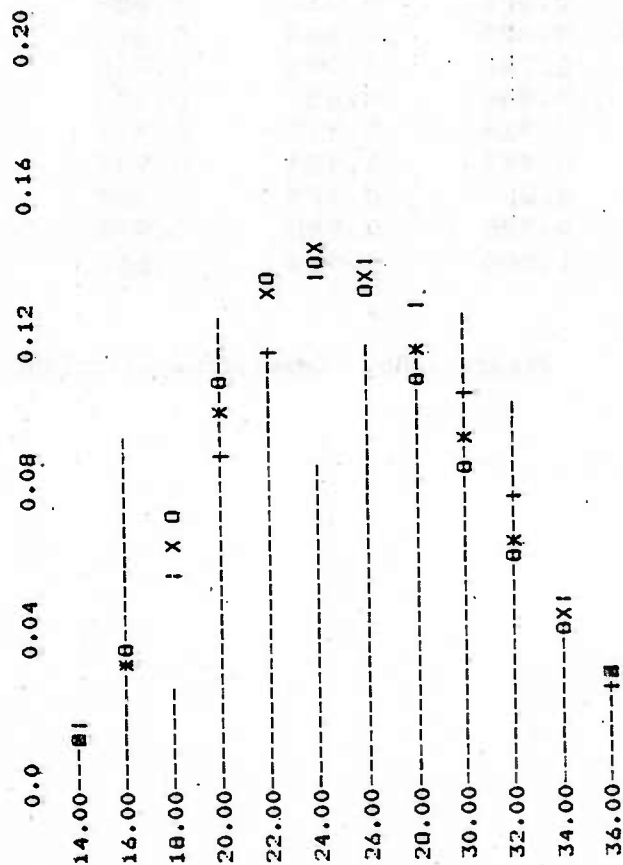


Figure 121. Histogram for Tundra

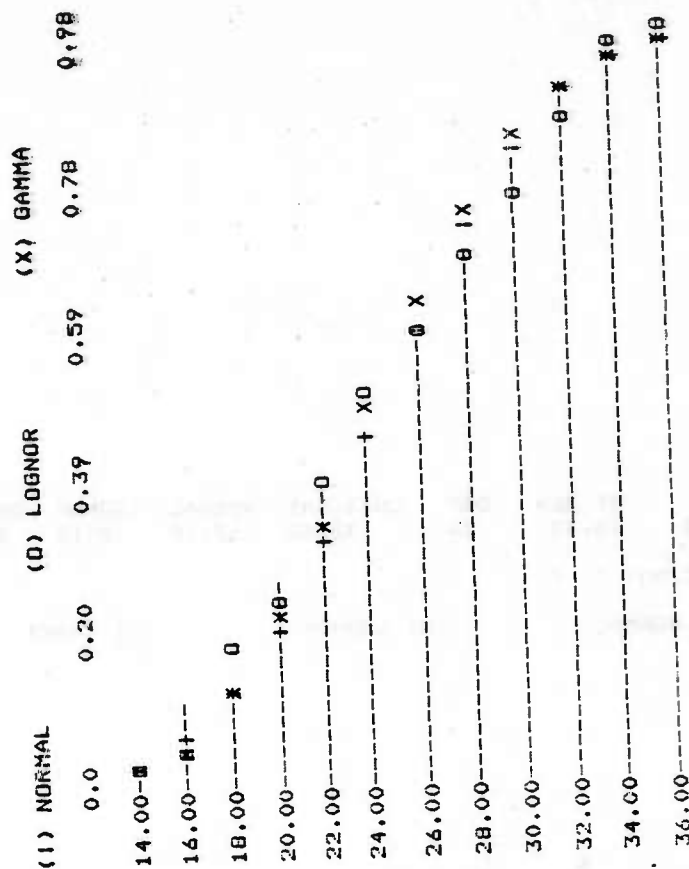


Figure 12a. Cumulative Distribution for Tundra

	Tundra	N	L	G
14.00	0.008	0.017	0.011	0.012
16.00	0.100	0.051	0.043	0.045
18.00	0.125	0.109	0.171	0.109
20.00	0.250	0.195	0.234	0.210
22.00	0.367	0.311	0.385	0.341
24.00	0.450	0.446	0.508	0.484
26.00	0.567	0.587	0.581	0.622
28.00	0.683	0.715	0.676	0.740
30.00	0.808	0.819	0.767	0.831
32.00	0.908	0.893	0.869	0.896
34.00	0.950	0.940	0.950	0.939
36.00	0.975	0.966	0.977	0.965

Figure 121b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
25.71	10.43	24	36.42	67.69	38.18	36.86

PLOT (F/C/NO) ? F

(.) NORMAL

(O) LOGNOR

(X) GAMMA

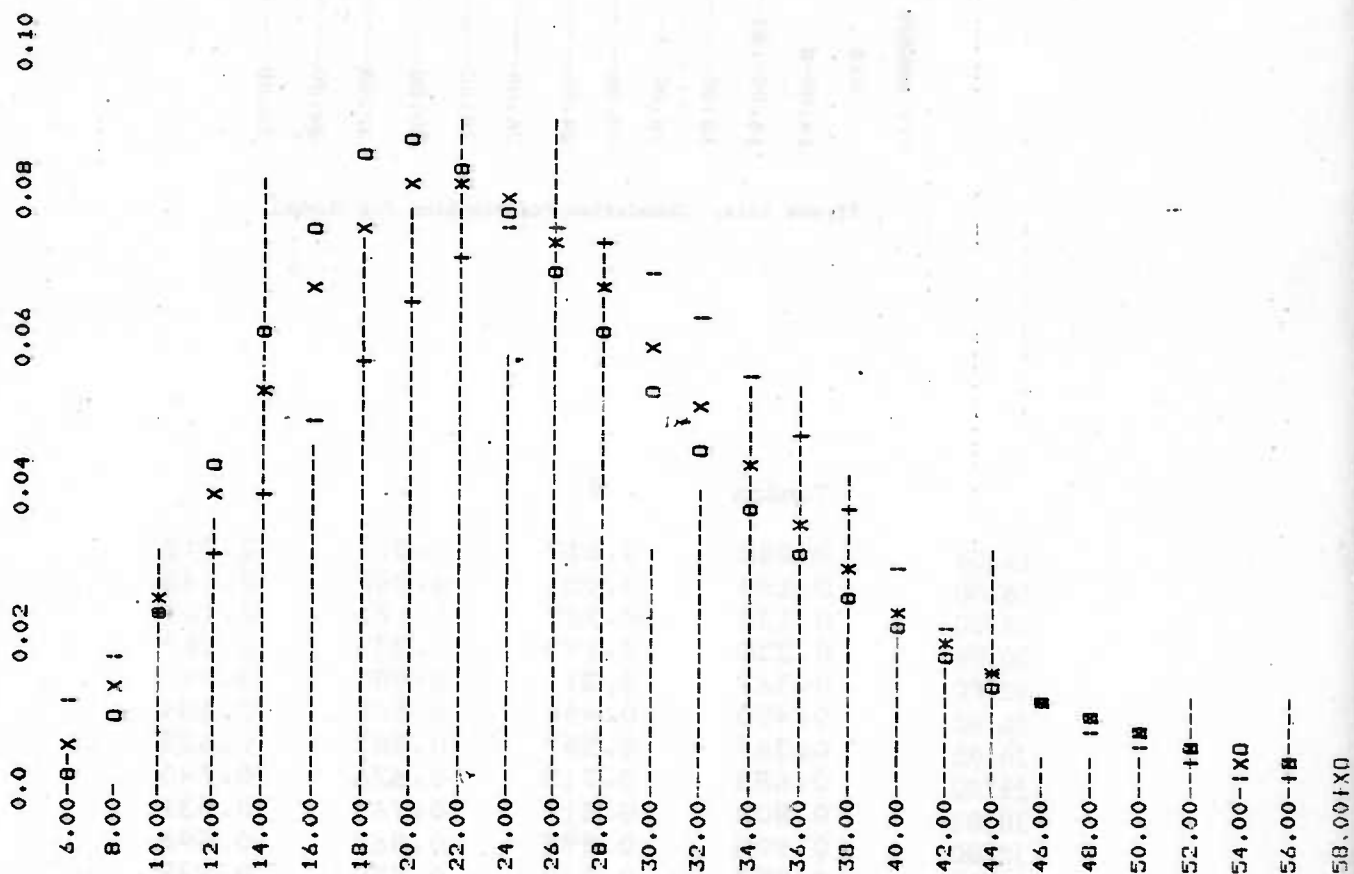


Figure 122. Histogram for Tundra

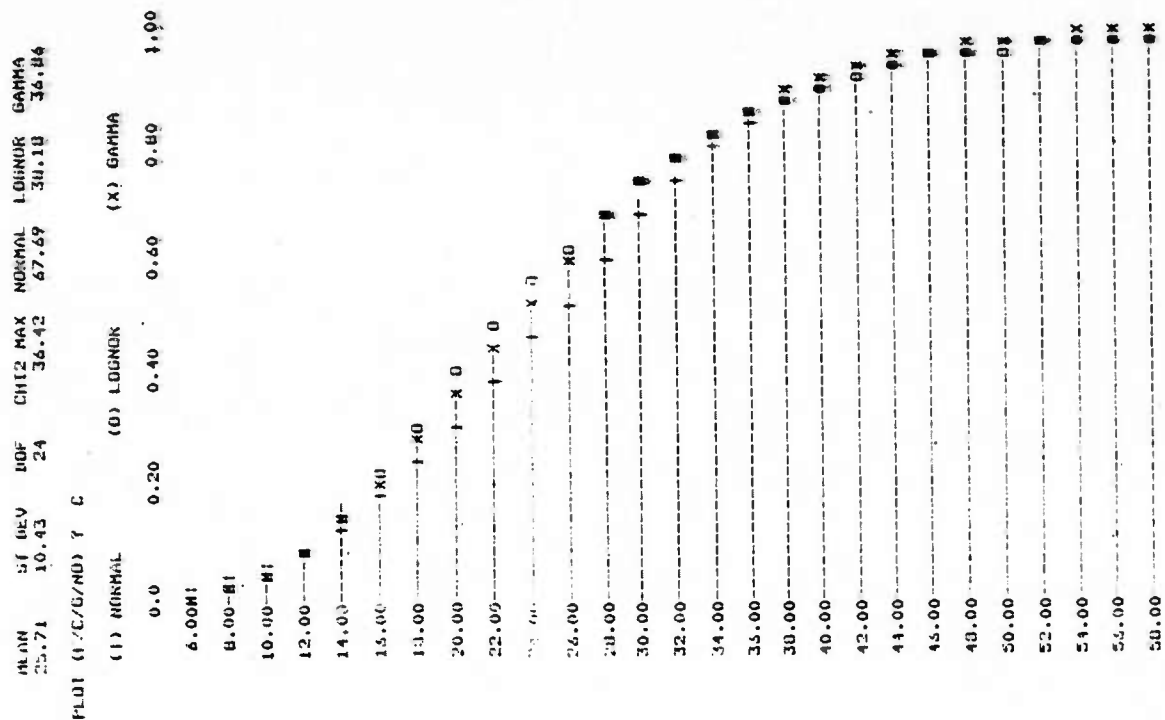


Figure 122a. Cumulative Distribution for Tundra

	Tundra	N	L	G
6.000	0.004	0.013	0.002	0.005
8.000	0.004	0.031	0.011	0.018
10.000	0.035	0.056	0.035	0.044
12.000	0.070	0.088	0.078	0.084
14.000	0.152	0.129	0.141	0.139
16.000	0.197	0.170	0.218	0.206
18.000	0.273	0.236	0.303	0.293
20.000	0.352	0.302	0.370	0.364
22.000	0.441	0.374	0.475	0.444
24.000	0.500	0.449	0.553	0.525
26.000	0.590	0.526	0.624	0.600
28.000	0.664	0.600	0.687	0.660
30.000	0.695	0.670	0.740	0.729
32.000	0.734	0.734	0.786	0.779
34.000	0.787	0.770	0.824	0.823
36.000	0.844	0.837	0.856	0.860
38.000	0.887	0.875	0.883	0.890
40.000	0.910	0.905	0.904	0.915
42.000	0.930	0.928	0.922	0.934
44.000	0.941	0.914	0.937	0.947
46.000	0.965	0.954	0.940	0.961
48.000	0.969	0.964	0.958	0.971
50.000	0.973	0.969	0.966	0.978
52.000	0.984	0.972	0.972	0.983
54.000	0.984	0.974	0.977	0.987
56.000	0.986	0.976	0.981	0.990
58.000	0.986	0.976	0.983	0.991

Figure 122b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
24.82	9.41	29	42.56	1167.13	54.53	95.77

PLOT (F/C/NO) ? F

(.) NORMAL

(O) LOGNOR

(X) GAMMA

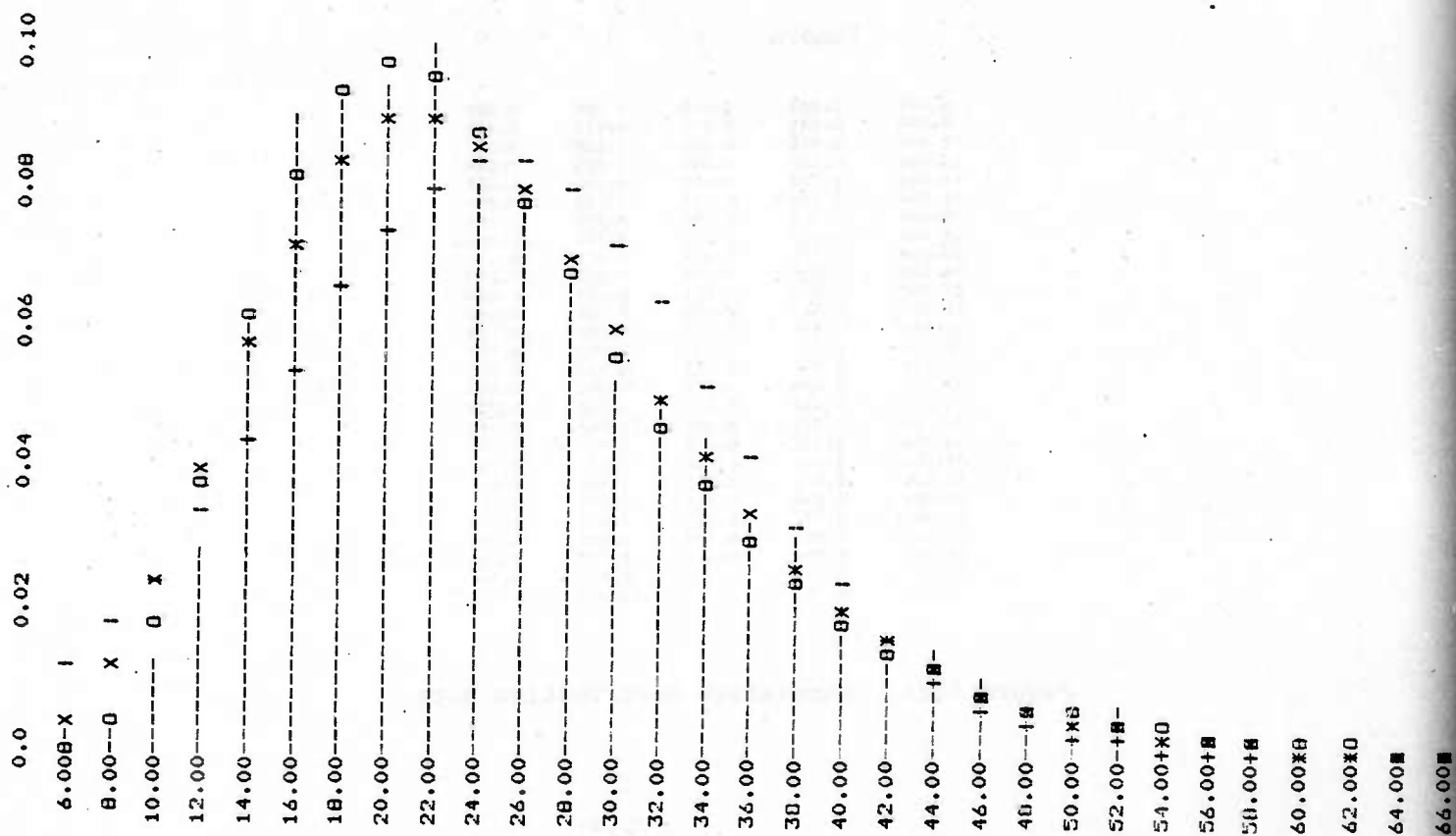


Figure 123. Histogram for Tundra

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
28.19	10.95	32	43.77	4603.68	153.58	455.09

PLOT (F/C/NO) ? F

(1) NORMAL

(0) LOGNOR

(X) GAMMA

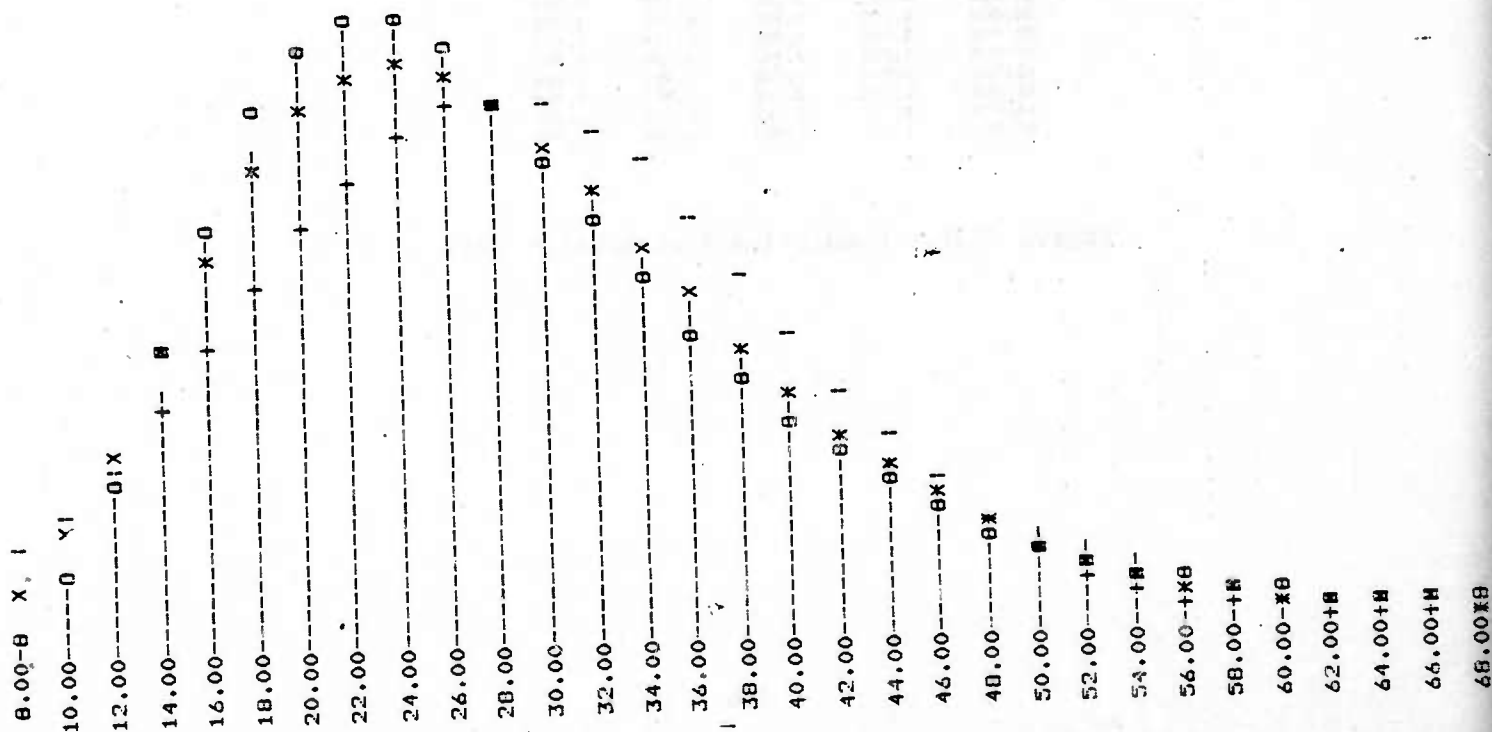


Figure 123a. Cumulative Distribution for Tundra

	Tundra	N	L	G
6.000	0.002	0.012	0.001	0.004
8.000	0.003	0.029	0.006	0.015
10.000	0.015	0.053	0.023	0.039
12.000	0.043	0.087	0.061	0.079
14.000	0.104	0.131	0.122	0.136
16.000	0.193	0.185	0.204	0.209
18.000	0.294	0.251	0.298	0.292
20.000	0.379	0.305	0.396	0.381
22.000	0.478	0.406	0.492	0.471
24.000	0.557	0.490	0.581	0.557
26.000	0.636	0.574	0.659	0.637
28.000	0.702	0.654	0.727	0.707
30.000	0.755	0.727	0.783	0.768
32.000	0.805	0.790	0.829	0.819
34.000	0.850	0.843	0.866	0.860
36.000	0.882	0.885	0.895	0.894
38.000	0.912	0.917	0.919	0.920
40.000	0.933	0.940	0.937	0.941
42.000	0.949	0.956	0.951	0.956
44.000	0.963	0.966	0.962	0.968
46.000	0.973	0.973	0.971	0.977
48.000	0.978	0.977	0.978	0.983
50.000	0.984	0.980	0.983	0.988
52.000	0.991	0.981	0.987	0.991
54.000	0.992	0.982	0.990	0.994
56.000	0.995	0.982	0.992	0.995
58.000	0.996	0.982	0.994	0.997
60.000	0.998	0.982	0.995	0.997
62.000	0.999	0.982	0.996	0.998
64.000	0.999	0.982	0.997	0.998
66.000	0.999	0.982	0.998	0.999
68.000	1.000	0.982	0.998	0.999

Figure 123b. Cumulative Distribution Data

MEAN ST DEV CUMULATIVE LOGNORMAL GAMMA
 20.19 10.95 37 43.77 8148.01 164.85 468.98
 FLOT (T/C/H/HO) ? FC

(1) NORMAL 0.0 0.02 0.04 0.06 0.08 0.10
 (2) LOGNORMAL
 (X) GAMMA

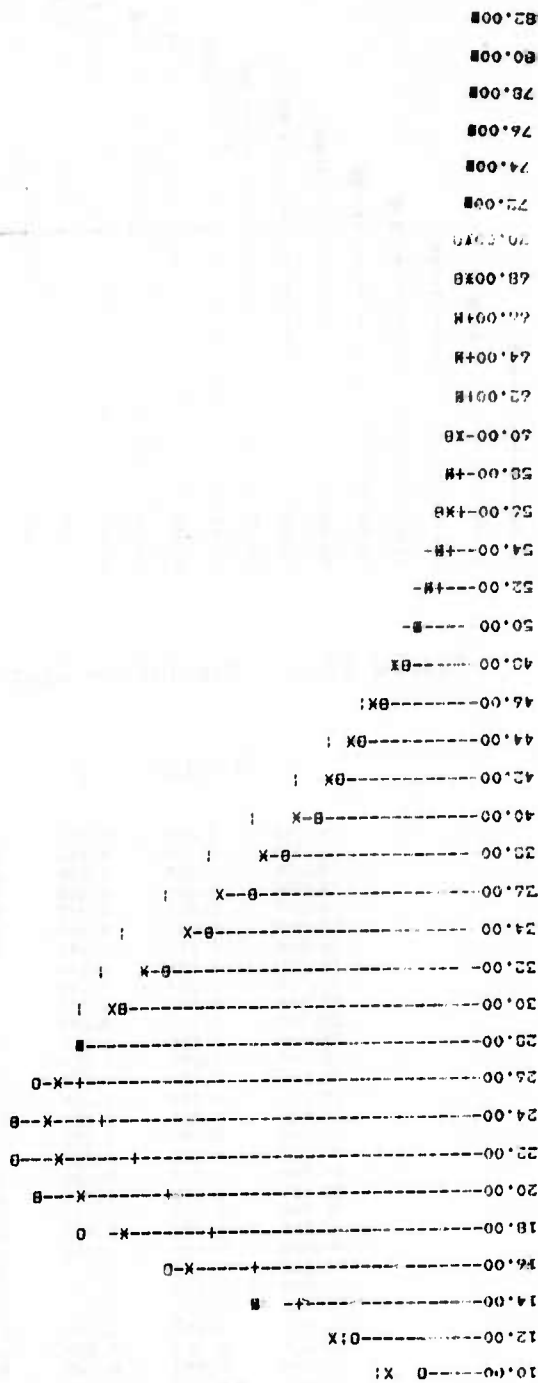


Figure 124. Histogram for Tundra

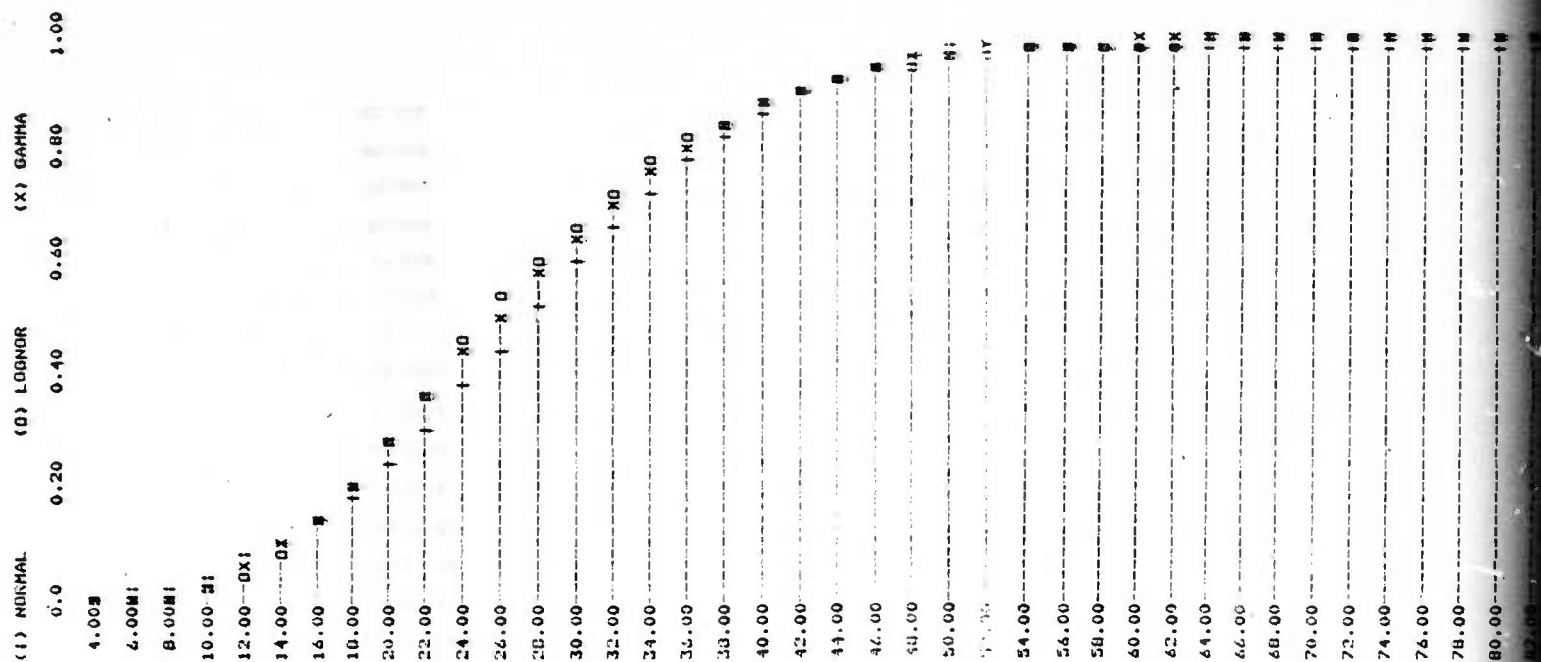


Figure 124a. Cumulative Distribution for Tundra

	Tundra	N	L	G
4.000	0.000	0.006	0.000	0.000
6.000	0.000	0.016	0.000	0.003
8.000	0.002	0.029	0.003	0.010
10.000	0.009	0.048	0.012	0.025
12.000	0.029	0.072	0.034	0.052
14.000	0.063	0.104	0.074	0.091
16.000	0.117	0.143	0.131	0.143
18.000	0.184	0.190	0.202	0.206
20.000	0.264	0.245	0.283	0.278
22.000	0.347	0.307	0.367	0.354
24.000	0.431	0.375	0.451	0.432
26.000	0.510	0.446	0.531	0.508
28.000	0.581	0.519	0.604	0.580
30.000	0.644	0.590	0.669	0.647
32.000	0.703	0.659	0.725	0.707
34.000	0.754	0.722	0.774	0.750
36.000	0.777	0.779	0.815	0.805
38.000	0.836	0.827	0.849	0.844
40.000	0.867	0.868	0.877	0.876
42.000	0.893	0.901	0.901	0.902
44.000	0.916	0.927	0.920	0.921
46.000	0.934	0.946	0.935	0.941
48.000	0.947	0.961	0.948	0.951
50.000	0.950	0.971	0.950	0.955
52.000	0.950	0.977	0.954	0.974
54.000	0.975	0.982	0.973	0.980
56.000	0.981	0.985	0.979	0.985
58.000	0.985	0.987	0.982	0.989
60.000	0.989	0.988	0.986	0.992
62.000	0.992	0.989	0.989	0.994
64.000	0.994	0.990	0.991	0.996
66.000	0.995	0.990	0.991	0.997
68.000	0.997	0.990	0.994	0.998
70.000	0.997	0.992	0.995	0.998
72.000	0.999	0.992	0.996	0.999
74.000	0.999	0.993	0.997	0.999
76.000	0.999	0.993	0.997	0.999
78.000	1.000	0.997	0.998	1.000
80.000	1.000	0.997	0.998	1.000
82.000	1.000	0.999	0.999	1.000

Figure 124b. Cumulative Distribution Data

MEAN 7.68 ST DEV 4.56 DOF 17 CHI2 MAX 27.59***** NORMAL LOGNOR GAMMA
 2640.33 2753.31
 PLOT (F/C/G/NO) ? FC
 (.) NORMAL (O) LOGNOR (X) GAMMA

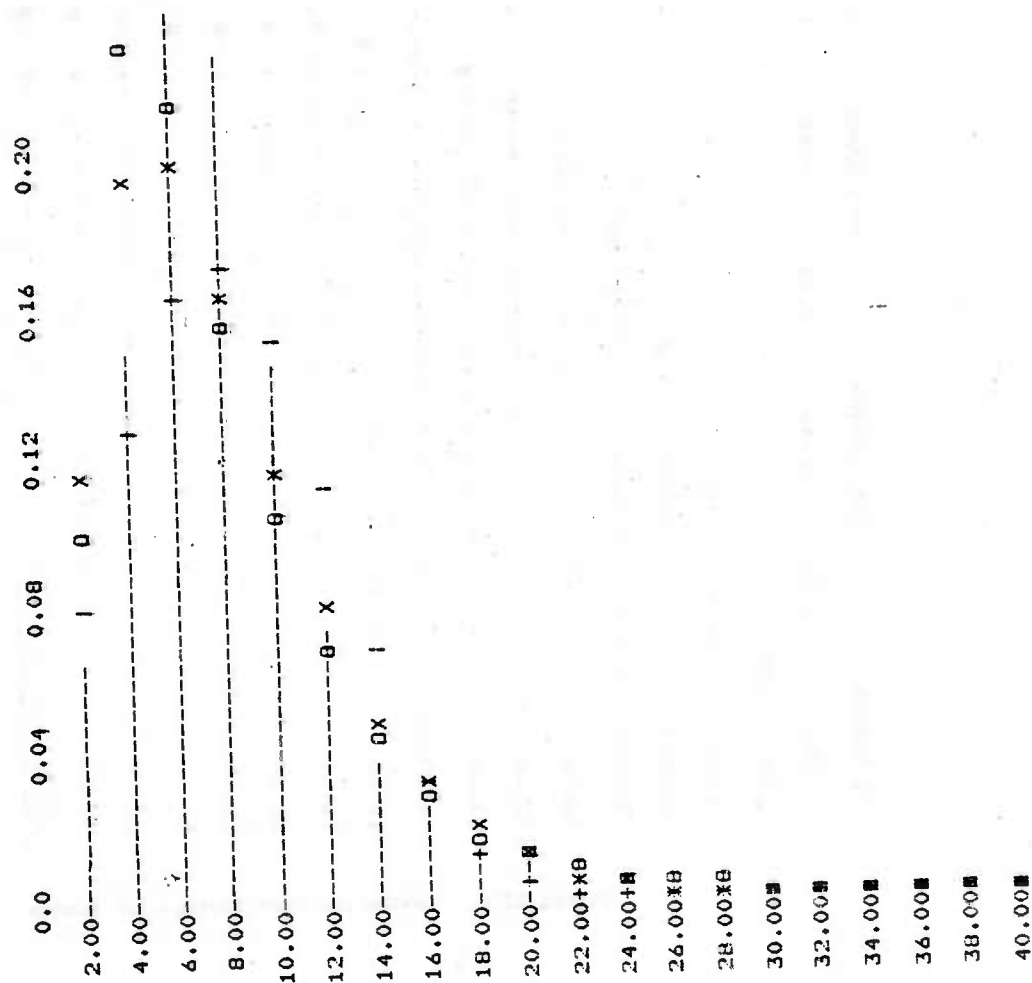


Figure 125. Histogram for Tundra

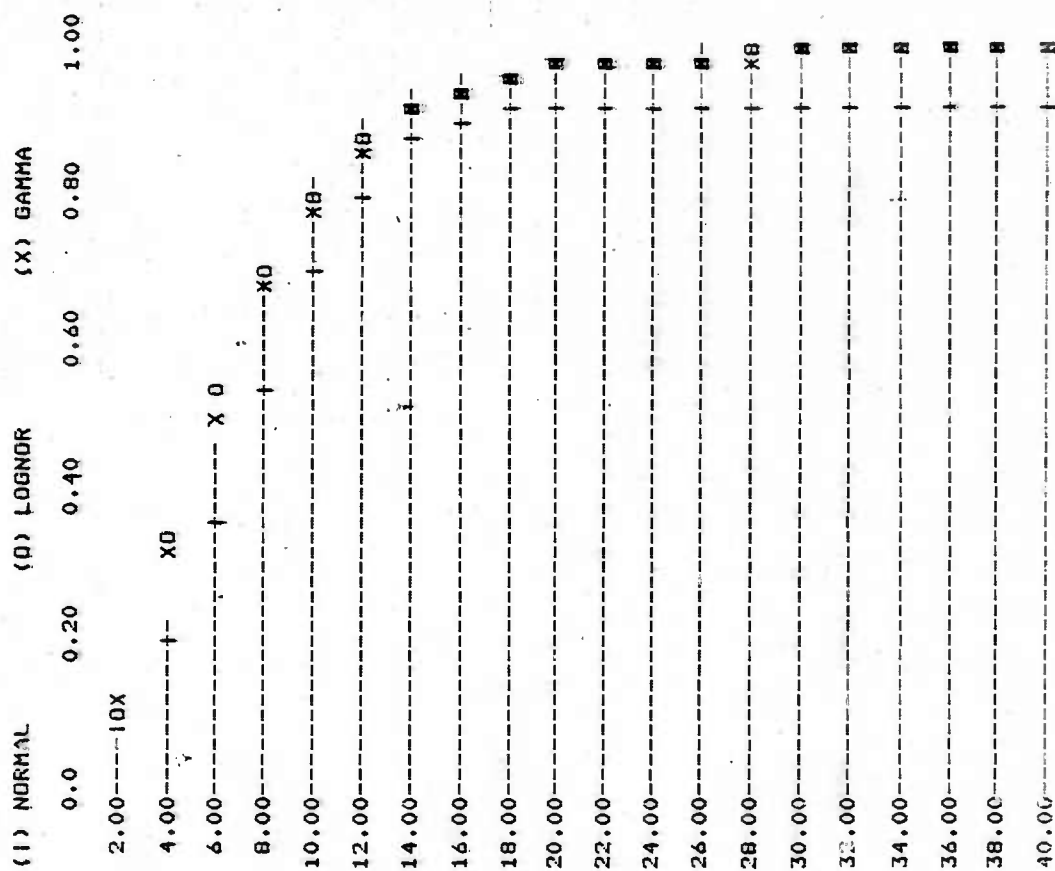


Figure 125a. Cumulative Distribution for Tundra

	Tundra	N	L	G
2.000	0.065	0.081	0.100	0.114
4.000	0.213	0.207	0.331	0.311
6.000	0.452	0.370	0.547	0.510
8.000	0.680	0.543	0.703	0.672
10.000	0.823	0.696	0.806	0.790
12.000	0.894	0.807	0.873	0.868
14.000	0.931	0.874	0.915	0.918
16.000	0.954	0.908	0.943	0.949
18.000	0.967	0.922	0.961	0.967
20.000	0.976	0.927	0.973	0.977
22.000	0.983	0.928	0.981	0.983
24.000	0.988	0.928	0.986	0.987
26.000	0.992	0.928	0.990	0.989
28.000	0.995	0.928	0.992	0.990
30.000	0.997	0.928	0.994	0.990
32.000	0.998	0.928	0.995	0.990
34.000	0.999	0.928	0.996	0.991
36.000	1.000	0.928	0.997	0.991
38.000	1.000	0.928	0.997	0.991
40.000	1.000	0.928	0.998	0.991

Figure 125b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
16.00	5.49	25	37.65*****	1924.59	840.71	

PLOT (F/C/G/NO) ? FC

(I) NORMAL

(O) LOGNOR

(X) GAMMA

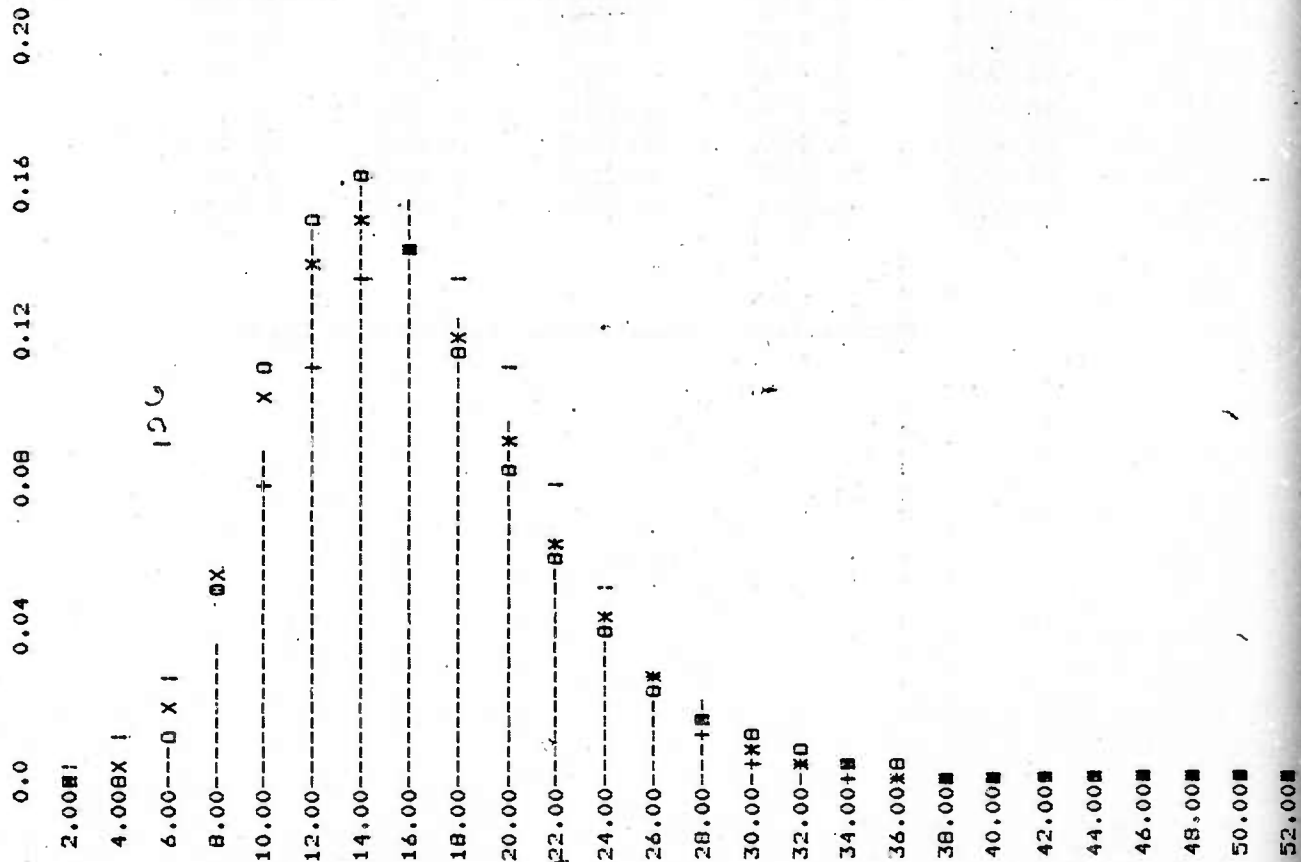


Figure 126. Histogram for Tundra

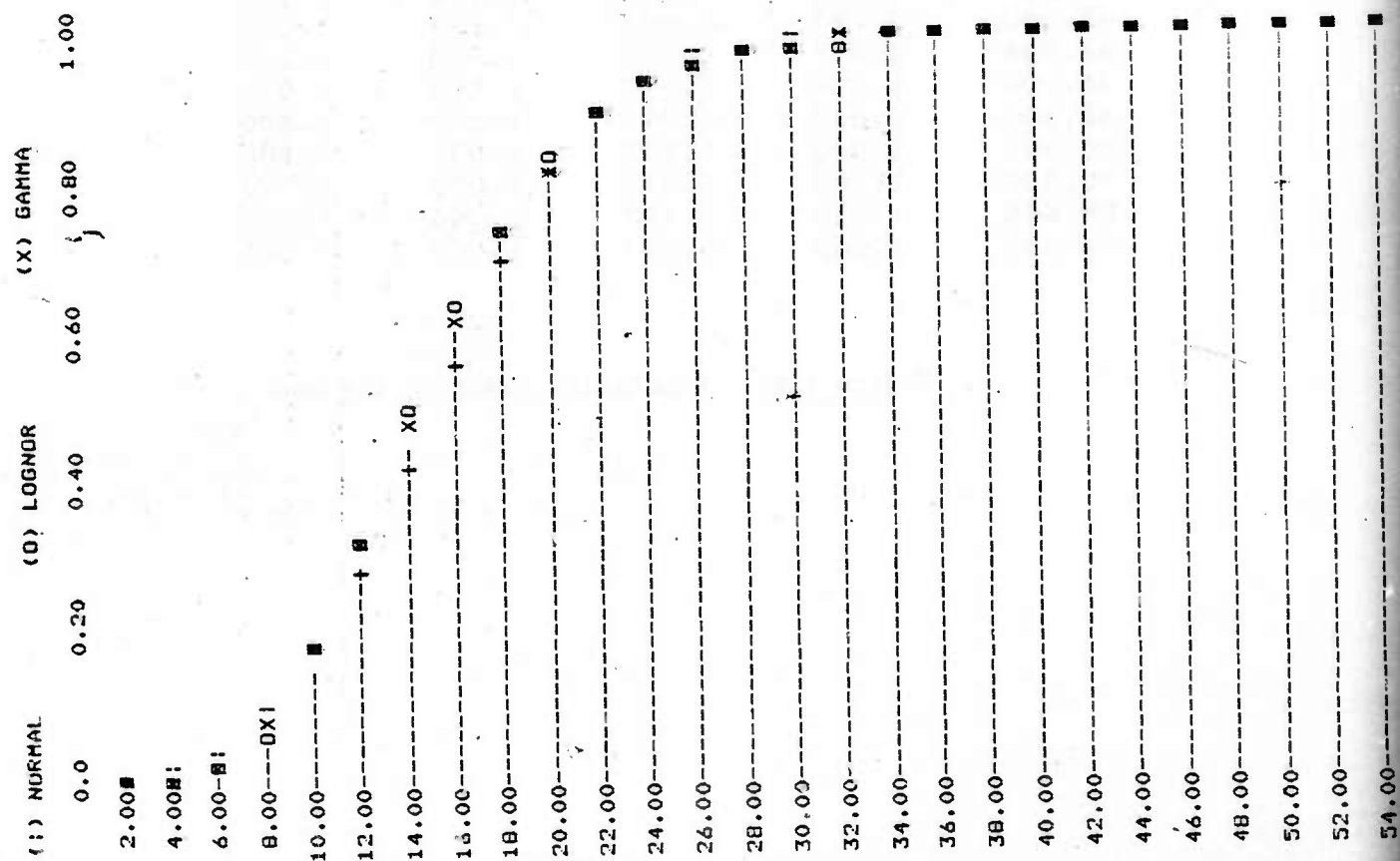


Figure 126a. Cumulative Distribution for Tundra

	Tundra	N	L	G
2.000	0.000	0.006	0.000	0.000
4.000	0.001	0.019	0.001	0.003
6.000	0.009	0.047	0.012	0.023
8.000	0.044	0.098	0.063	0.079
10.000	0.132	0.178	0.174	0.181
12.000	0.279	0.289	0.328	0.320
14.000	0.444	0.425	0.491	0.472
16.000	0.601	0.569	0.635	0.615
18.000	0.724	0.705	0.750	0.735
20.000	0.819	0.816	0.834	0.827
22.000	0.885	0.896	0.892	0.892
24.000	0.928	0.946	0.931	0.935
26.000	0.955	0.974	0.956	0.963
28.000	0.973	0.988	0.973	0.979
30.000	0.984	0.994	0.983	0.989
32.000	0.989	0.996	0.989	0.994
34.000	0.993	0.997	0.993	0.997
36.000	0.996	0.997	0.996	0.998
38.000	0.997	0.997	0.997	0.999
40.000	0.998	0.997	0.998	1.000
42.000	0.999	0.997	0.999	1.000
44.000	0.999	0.997	0.999	1.000
46.000	1.000	0.997	1.000	1.000
48.000	1.000	0.997	1.000	1.000
50.000	1.000	0.997	1.000	1.000
52.000	1.000	0.997	1.000	1.000
54.000	1.000	0.997	1.000	1.000
56.000	1.000	0.997	1.000	1.000

Figure 126b. Cumulative Distribution Data

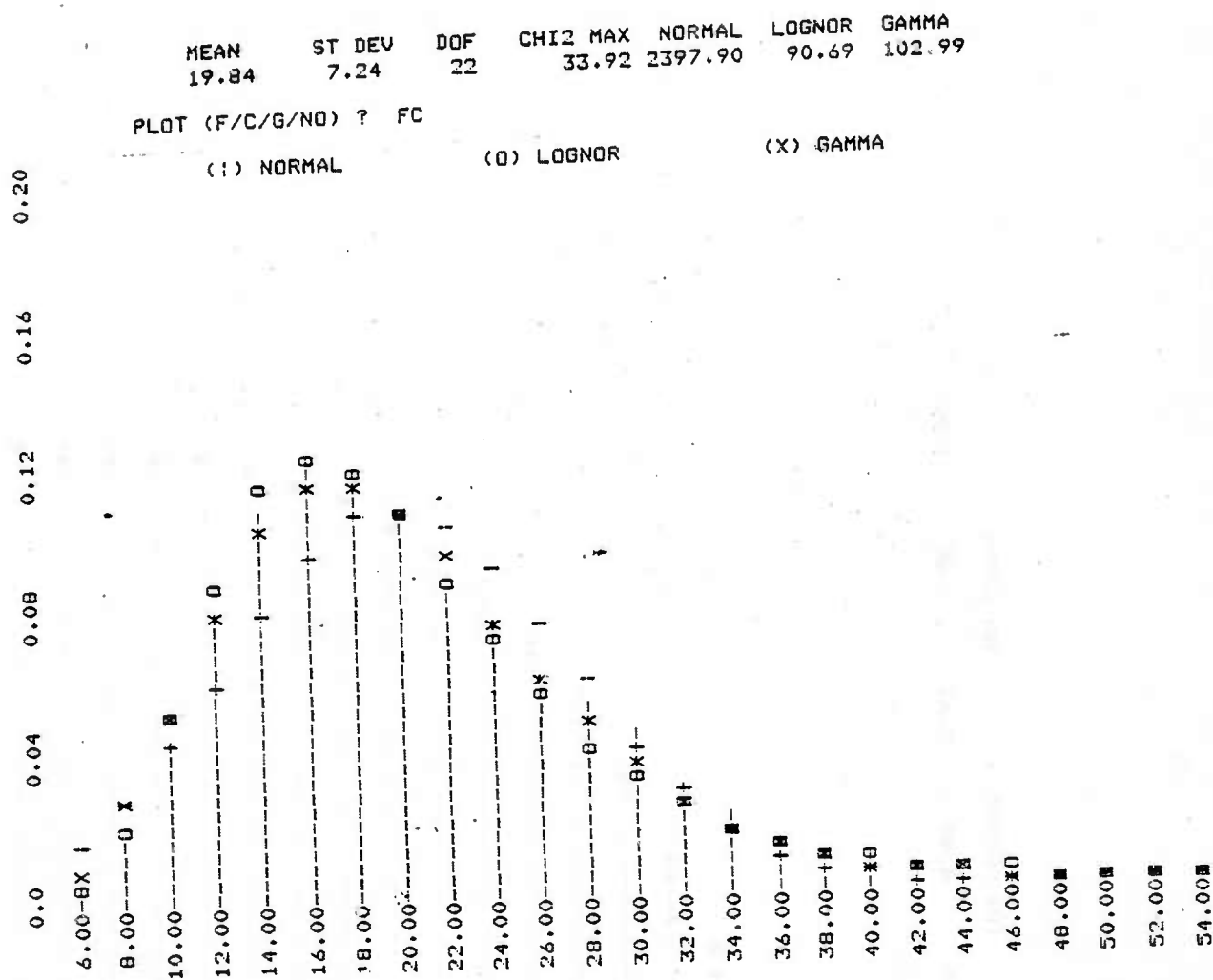


Figure 127. Histogram for Mountain

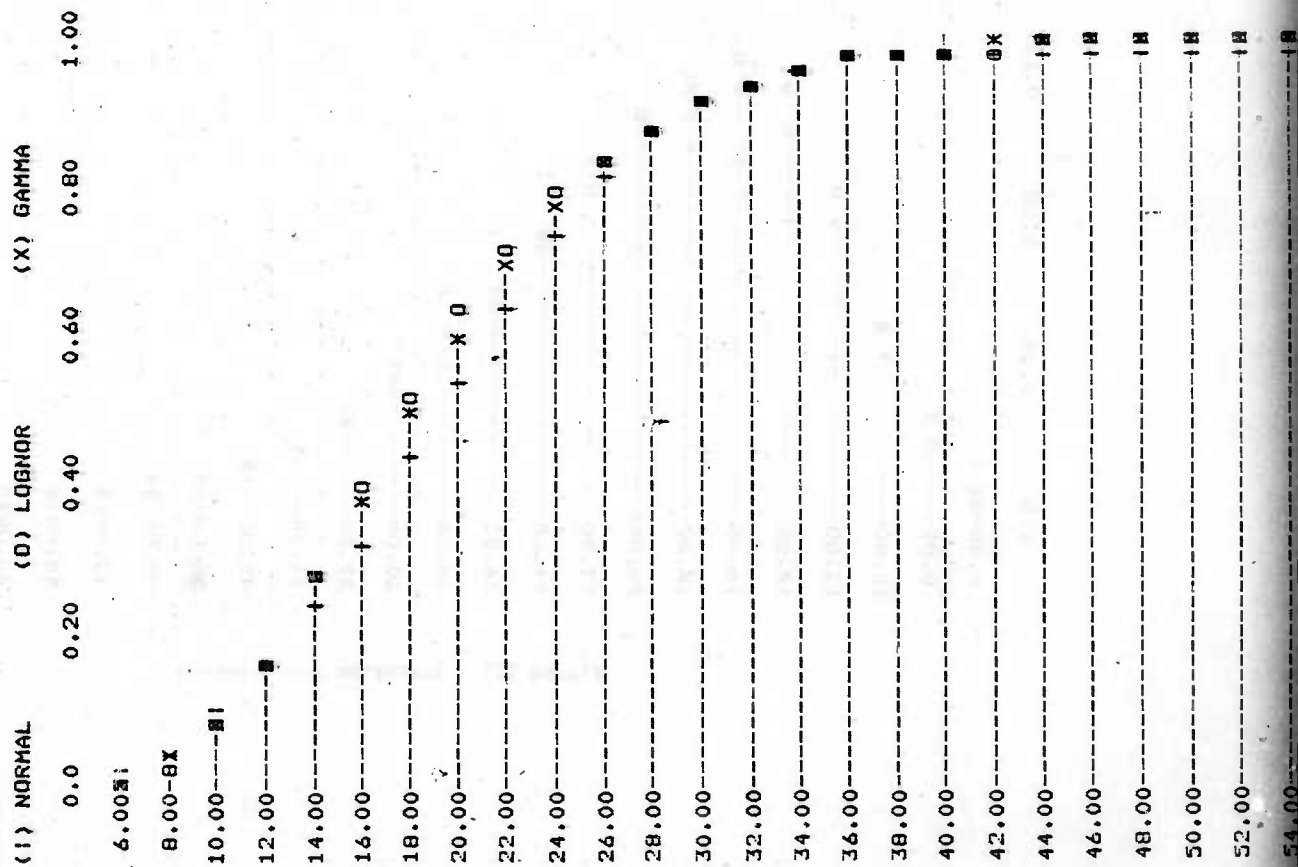


Figure 127a. Cumulative Distribution for Mountain

	Mountain	N	L	G
6.000	0.002	0.018	0.004	0.009
8.000	0.018	0.047	0.024	0.035
10.000	0.062	0.091	0.076	0.088
12.000	0.144	0.152	0.165	0.168
14.000	0.251	0.232	0.280	0.270
16.000	0.375	0.327	0.404	0.385
18.000	0.495	0.434	0.525	0.500
20.000	0.599	0.544	0.631	0.608
22.000	0.683	0.649	0.720	0.702
24.000	0.759	0.742	0.791	0.780
26.000	0.820	0.819	0.846	0.842
28.000	0.870	0.877	0.888	0.889
30.000	0.914	0.918	0.919	0.923
32.000	0.942	0.945	0.941	0.948
34.000	0.962	0.962	0.958	0.965
36.000	0.976	0.971	0.970	0.977
38.000	0.985	0.976	0.978	0.985
40.000	0.992	0.978	0.984	0.990
42.000	0.995	0.979	0.989	0.993
44.000	0.997	0.980	0.992	0.995
46.000	0.998	0.980	0.994	0.996
48.000	0.998	0.980	0.996	0.997
50.000	0.999	0.980	0.997	0.998
52.000	0.999	0.980	0.998	0.998
54.000	1.000	0.980	0.998	0.998

Figure 127b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
7.89	4.35	15	25.00*****	3093.14	3119.01	

PLOT (F/C/G/NO) ? FC

(!) NORMAL (O) LOGNOR (X) GAMMA

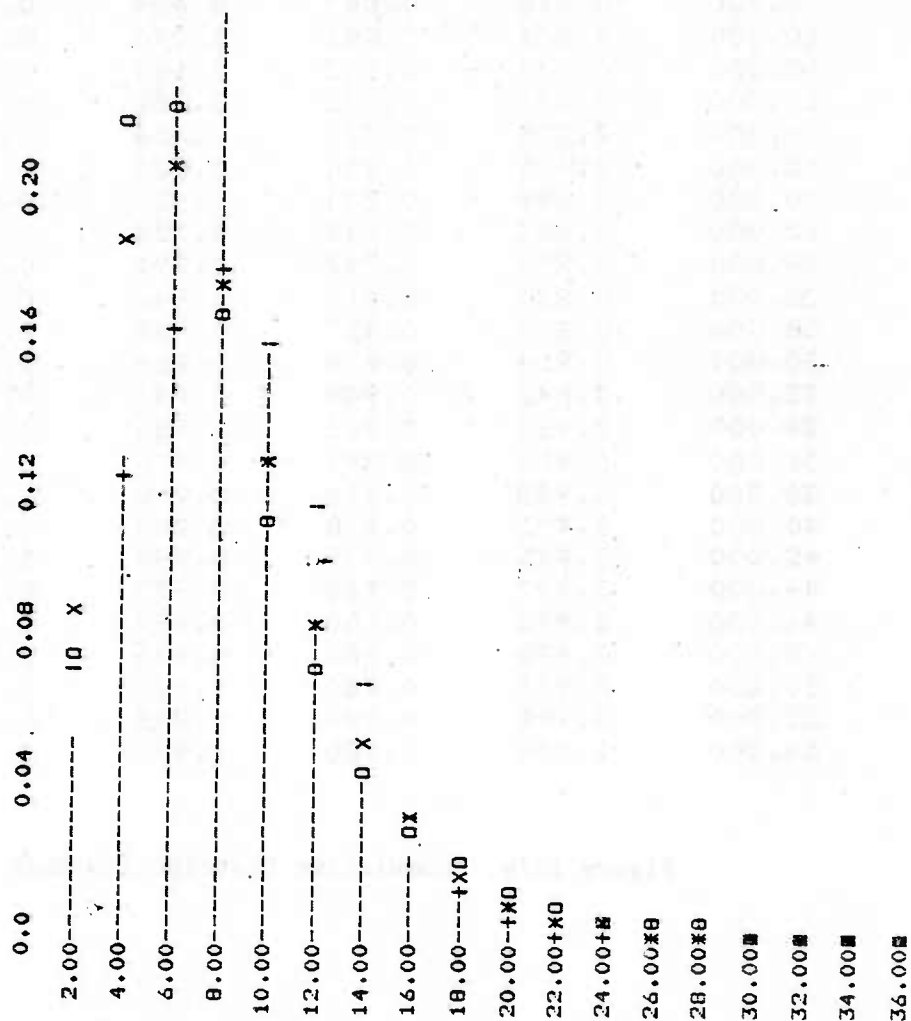


Figure 128. Histogram for Mountain

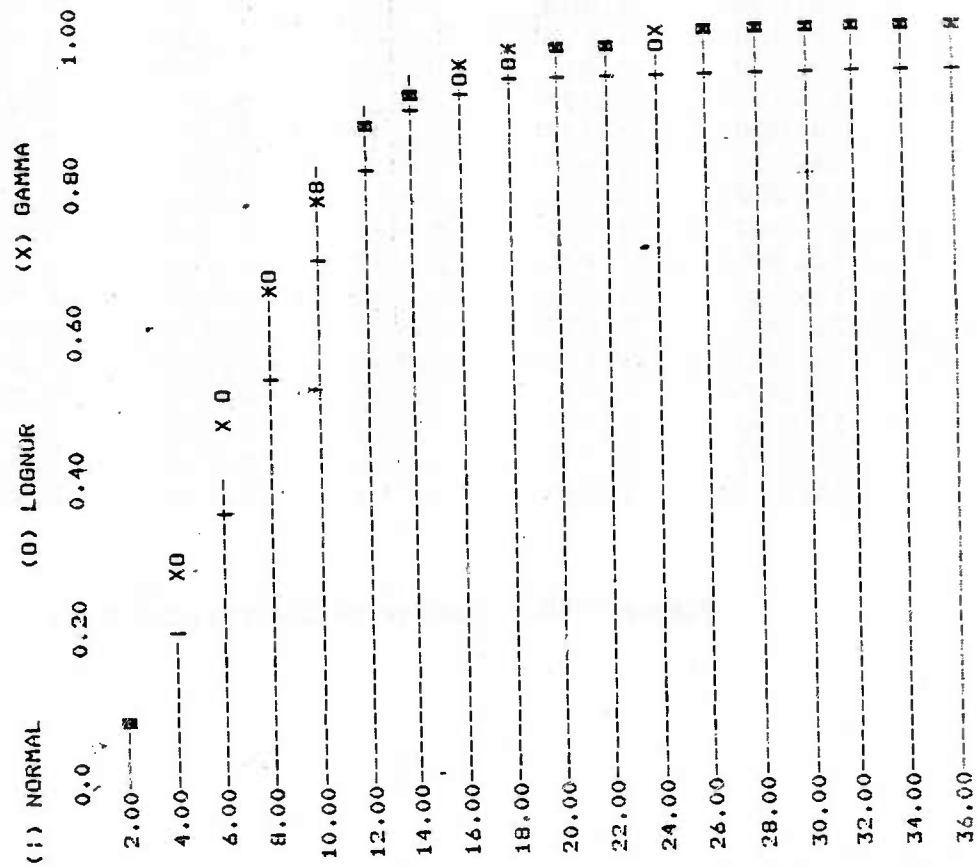


Figure 128a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.051	0.074	0.075	0.090
4.000	0.178	0.197	0.293	0.277
6.000	0.408	0.362	0.518	0.485
8.000	0.655	0.544	0.687	0.661
10.000	0.812	0.706	0.799	0.789
12.000	0.896	0.824	0.871	0.873
14.000	0.935	0.892	0.916	0.926
16.000	0.957	0.925	0.945	0.957
18.000	0.970	0.938	0.963	0.974
20.000	0.979	0.942	0.975	0.984
22.000	0.985	0.943	0.983	0.990
24.000	0.989	0.943	0.988	0.992
26.000	0.993	0.943	0.992	0.994
28.000	0.996	0.943	0.994	0.995
30.000	0.998	0.943	0.996	0.995
32.000	0.999	0.943	0.997	0.995
34.000	0.999	0.943	0.998	0.995
36.000	1.000	0.943	0.998	0.995

Figure 128b. Cumulative Distribution Data

MEAN 25.58 ST DEV 11.71 DOF 32 CHI2 MAX 43.77 NORMAL 7482.21 LOGNOR 1442.25 GAMMA 673.91
 FLOT (F/C/G/ND) ? FC

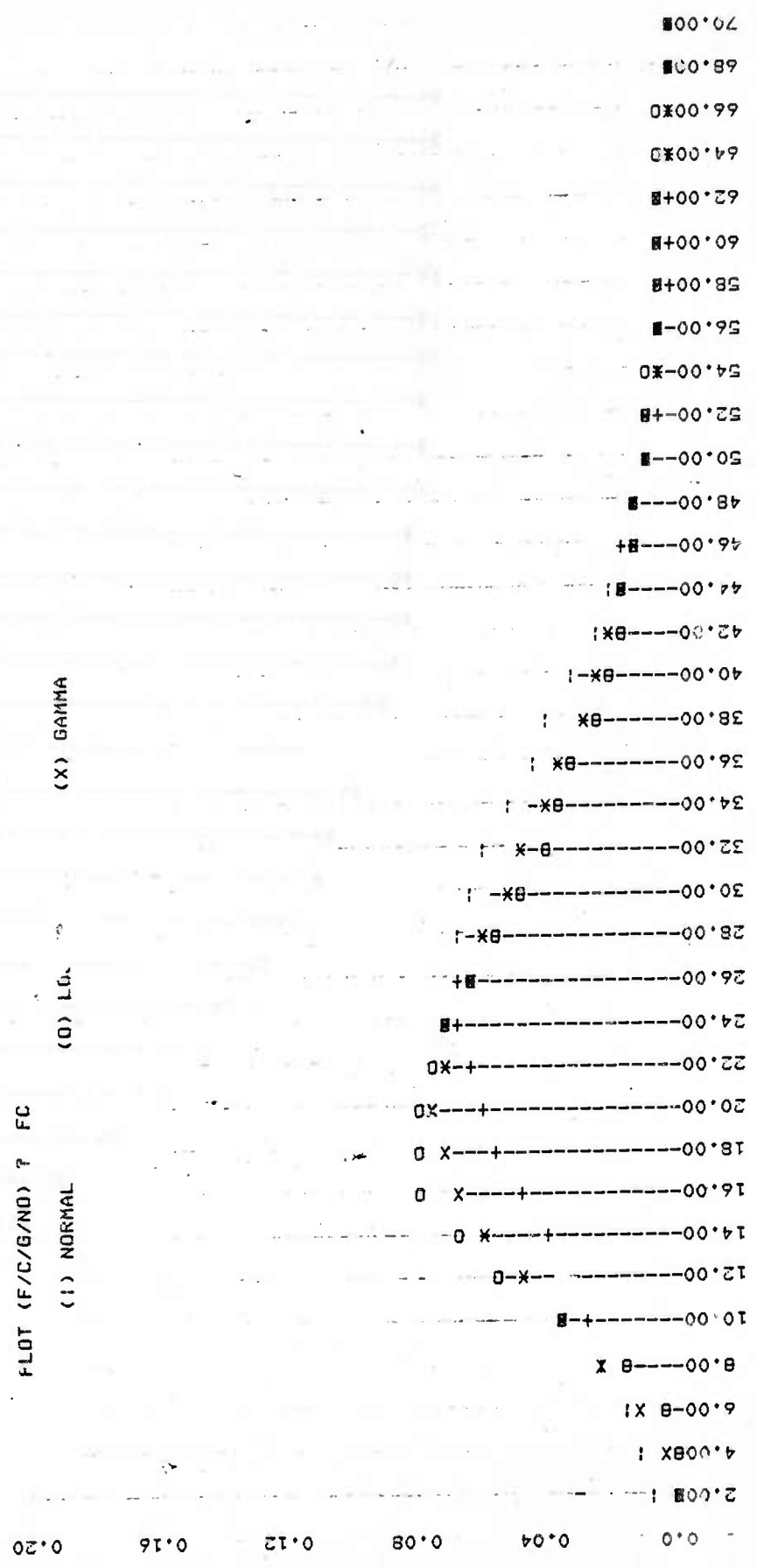


Figure 129. Histogram for Mountain

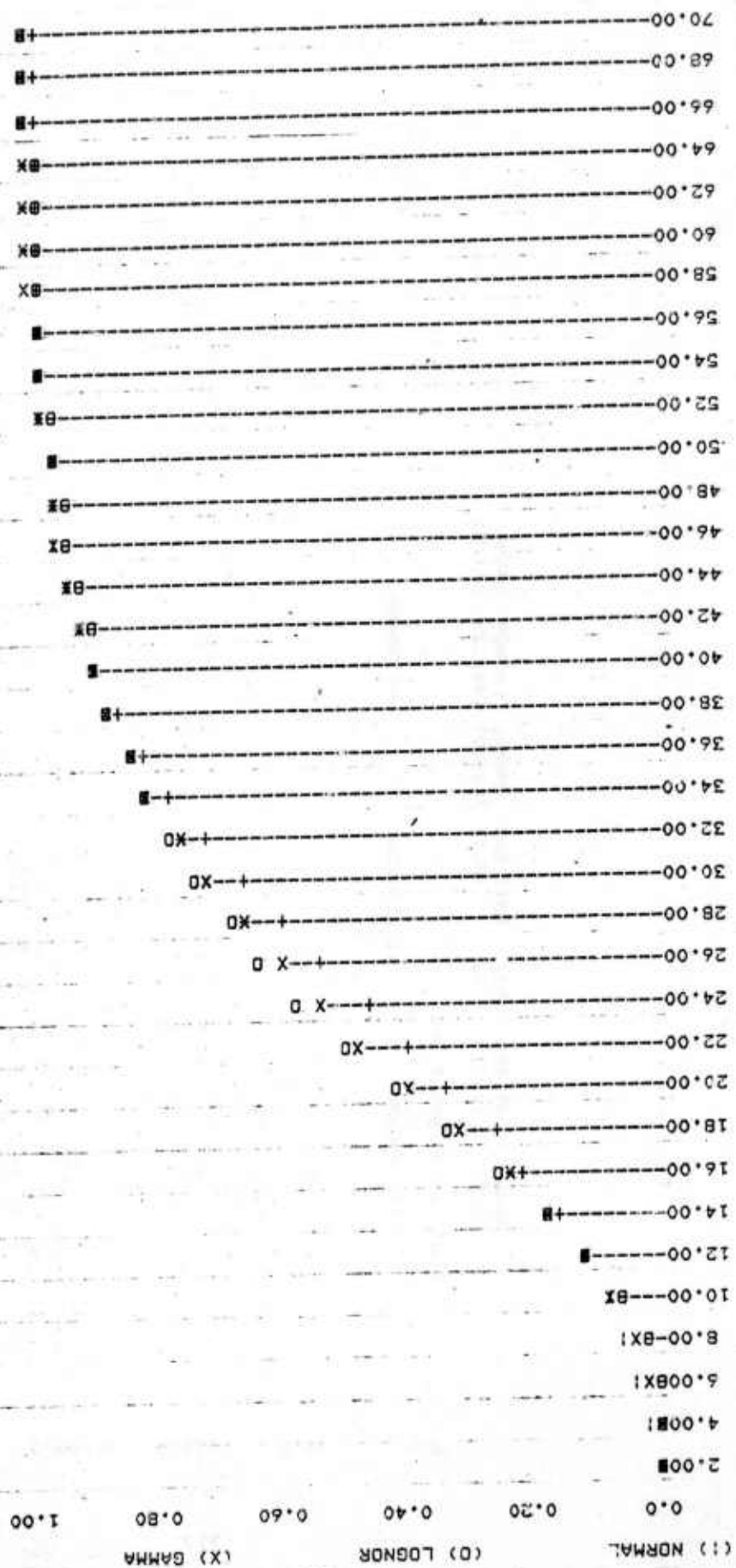


Figure 129a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.000	0.009	0.000	0.000
4.000	0.001	0.022	0.001	0.004
6.000	0.005	0.038	0.006	0.015
8.000	0.022	0.060	0.023	0.037
10.000	0.060	0.089	0.059	0.073
12.000	0.112	0.123	0.113	0.121
14.000	0.172	0.165	0.182	0.181
16.000	0.236	0.214	0.260	0.249
18.000	0.304	0.269	0.342	0.322
20.000	0.376	0.330	0.423	0.397
22.000	0.450	0.395	0.499	0.471
24.000	0.522	0.462	0.570	0.541
26.000	0.589	0.530	0.632	0.607
28.000	0.652	0.597	0.688	0.667
30.000	0.708	0.660	0.736	0.721
32.000	0.757	0.719	0.778	0.768
34.000	0.800	0.772	0.813	0.808
36.000	0.838	0.818	0.843	0.843
38.000	0.868	0.856	0.868	0.873
40.000	0.894	0.888	0.890	0.897
42.000	0.915	0.914	0.908	0.918
44.000	0.933	0.934	0.923	0.934
46.000	0.947	0.948	0.935	0.948
48.000	0.958	0.959	0.946	0.959
50.000	0.967	0.967	0.954	0.968
52.000	0.974	0.973	0.962	0.975
54.000	0.980	0.976	0.968	0.980
56.000	0.984	0.978	0.973	0.985
58.000	0.987	0.980	0.977	0.988
60.000	0.990	0.981	0.981	0.991
62.000	0.992	0.981	0.984	0.993
64.000	0.994	0.982	0.986	0.995
66.000	0.995	0.982	0.988	0.996
68.000	0.996	0.982	0.990	0.997
70.000	0.997	0.982	0.992	0.998

Figure 129b. Cumulative Distribution Data

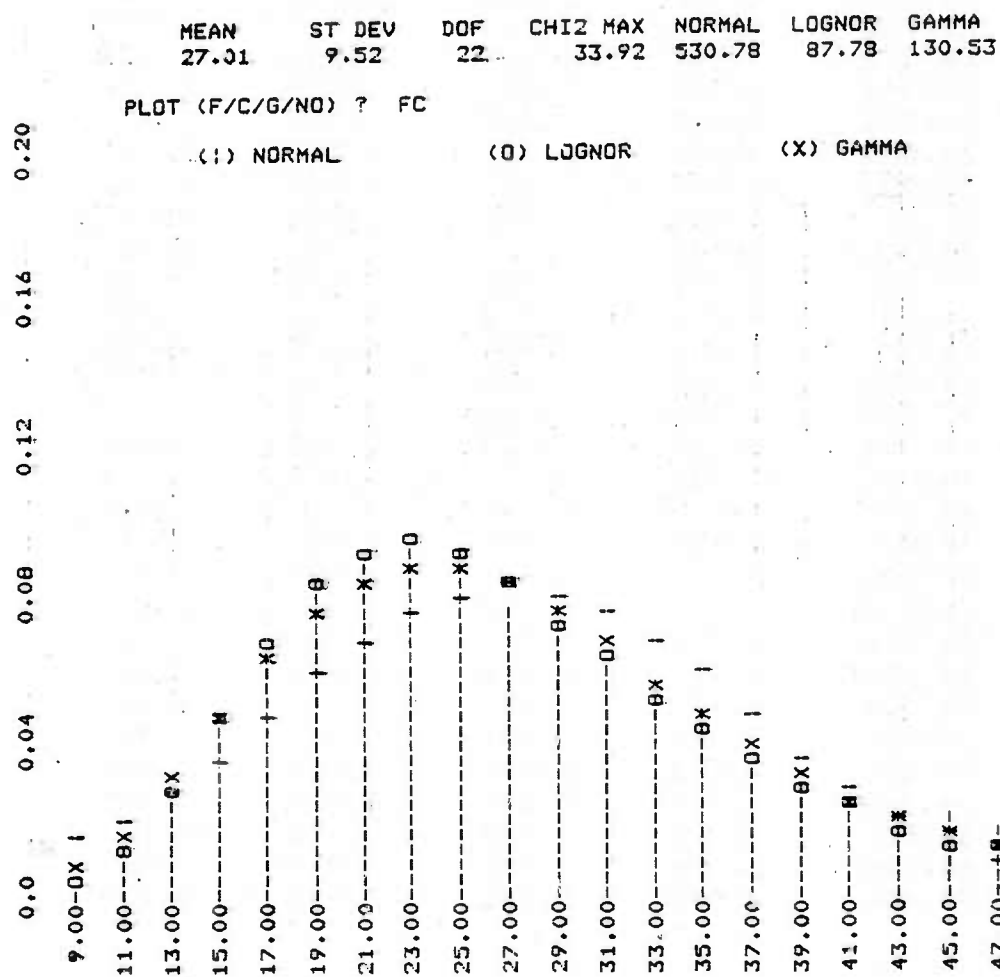


Figure 130. Histogram for Mountain

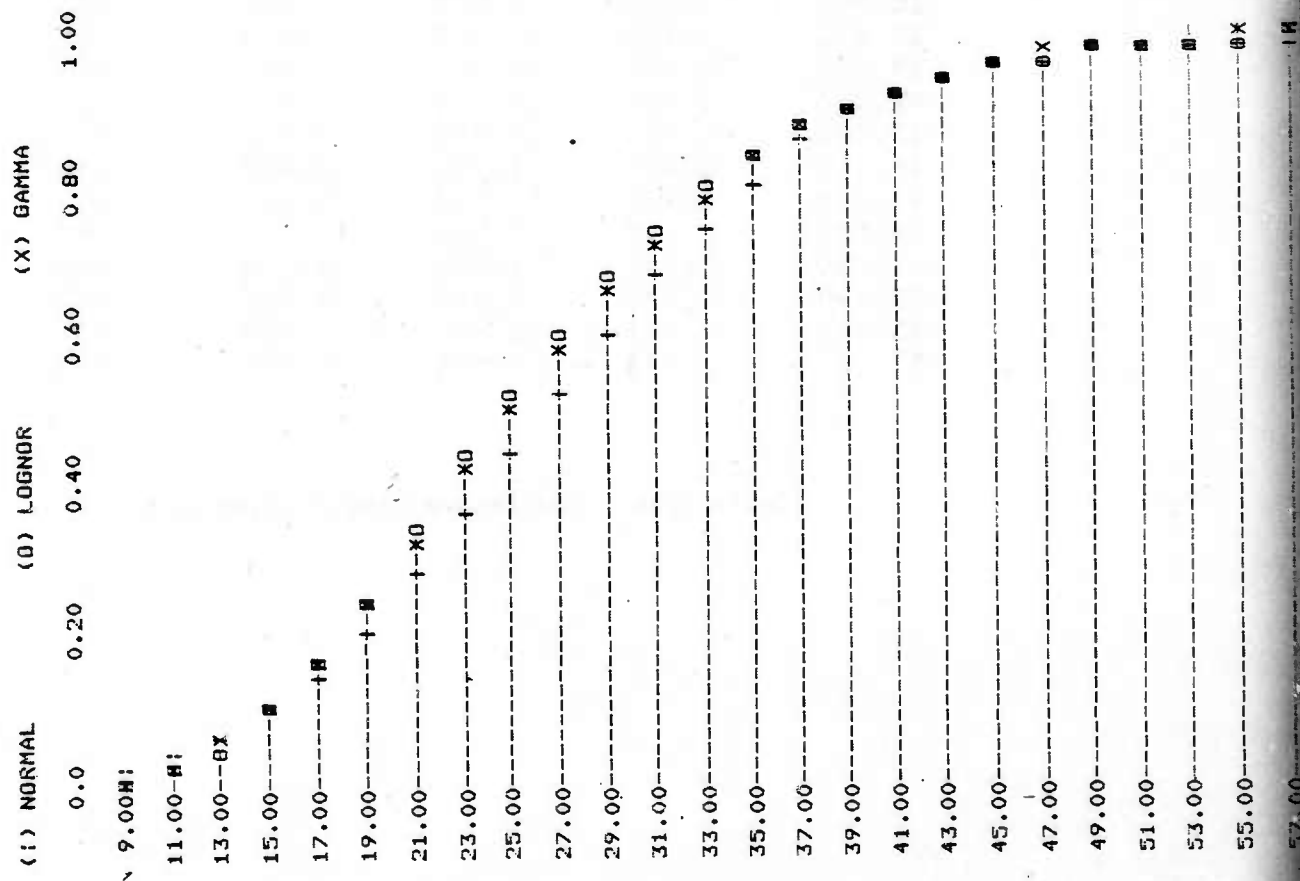


Figure 130a. Cumulative Distribution for Mountain

	Mountain	N	L	G
9.000	0.002	0.014	0.004	0.008
11.000	0.012	0.035	0.016	0.025
13.000	0.038	0.063	0.045	0.057
15.000	0.086	0.101	0.095	0.104
17.000	0.151	0.149	0.164	0.166
19.000	0.235	0.208	0.249	0.242
21.000	0.321	0.277	0.341	0.326
23.000	0.413	0.353	0.436	0.414
25.000	0.505	0.435	0.526	0.501
27.000	0.581	0.519	0.608	0.584
29.000	0.659	0.601	0.681	0.660
31.000	0.718	0.677	0.743	0.727
33.000	0.773	0.746	0.795	0.784
35.000	0.820	0.805	0.838	0.831
37.000	0.853	0.853	0.873	0.870
39.000	0.883	0.891	0.900	0.901
41.000	0.909	0.919	0.922	0.926
43.000	0.930	0.940	0.940	0.944
45.000	0.949	0.954	0.953	0.959
47.000	0.963	0.963	0.964	0.969
49.000	0.977	0.969	0.972	0.977
51.000	0.987	0.973	0.978	0.983
53.000	0.994	0.975	0.983	0.987
55.000	0.997	0.976	0.987	0.990
57.000	0.998	0.976	0.990	0.992

Figure 130b. Cumulative Distribution Data

MEAN	ST DEV	DOF	CHI2 MAX	NORMAL	LOGNOR	GAMMA
7.18	3.33	10	18.31667	10.88	4155.43	1333.03

PLOT (F/C/G/NO) ? FC

(1) NORMAL

(0) LOGNOR

(X) GAMMA

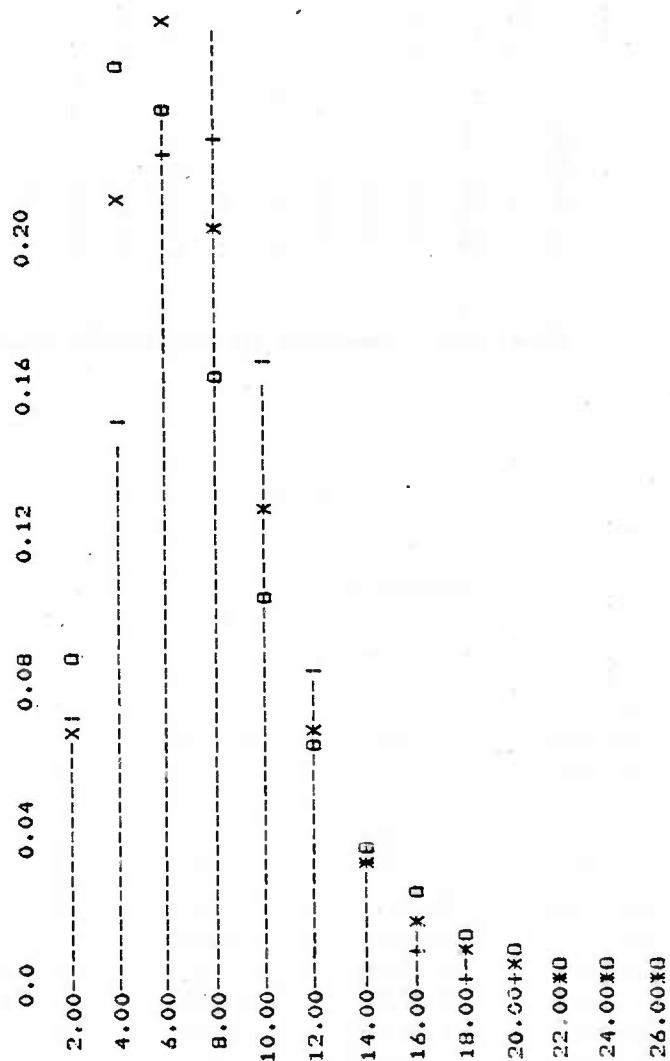


Figure 131. Histogram for Mountain

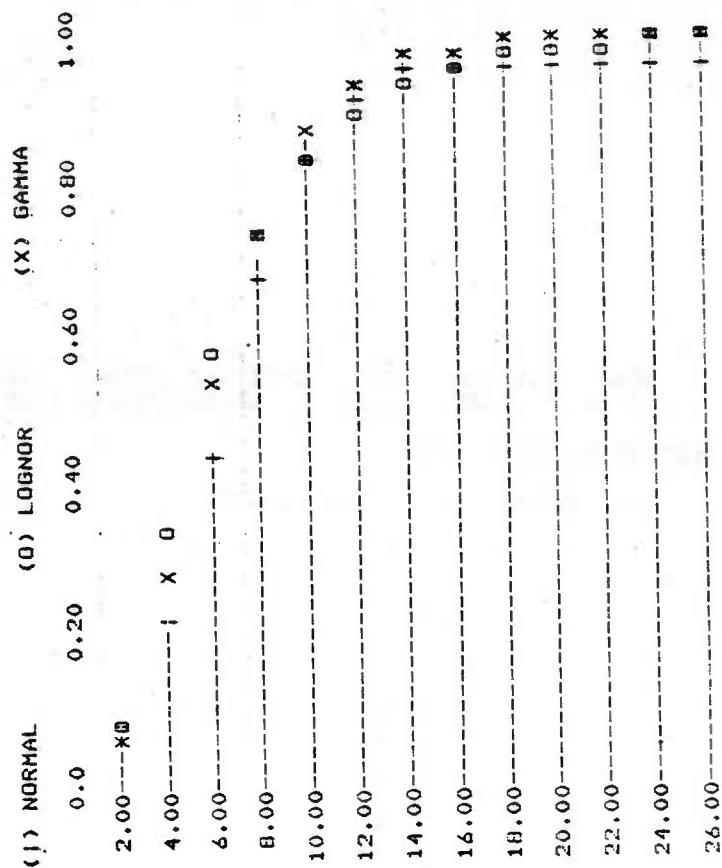


Figure 131a. Cumulative Distribution for Mountain

	Mountain	N	L	G
2.000	0.063	0.073	0.088	0.068
4.000	0.206	0.224	0.335	0.280
6.000	0.442	0.447	0.573	0.539
8.000	0.697	0.676	0.738	0.744
10.000	0.857	0.843	0.842	0.872
12.000	0.937	0.928	0.904	0.940
14.000	0.973	0.959	0.941	0.974
16.000	0.988	0.967	0.963	0.988
18.000	0.994	0.968	0.976	0.995
20.000	0.998	0.968	0.985	0.997
22.000	0.999	0.968	0.990	0.998
24.000	1.000	0.968	0.993	0.999
26.000	1.000	0.968	0.995	0.999

Figure 131b. Cumulative Distribution Data

MEAN 29.81 ST DEV 9.90 DOF 37 CHI2 MAX 43.7727103.52 NORMAL LOGNOR GAMMA
 165.74 687.46

PLOT (F/C/G/NO) ? FC

(:) NORMAL (O) LOGNOR (X) GAMMA

0.20 0.16 0.12 0.08 0.04 0.00

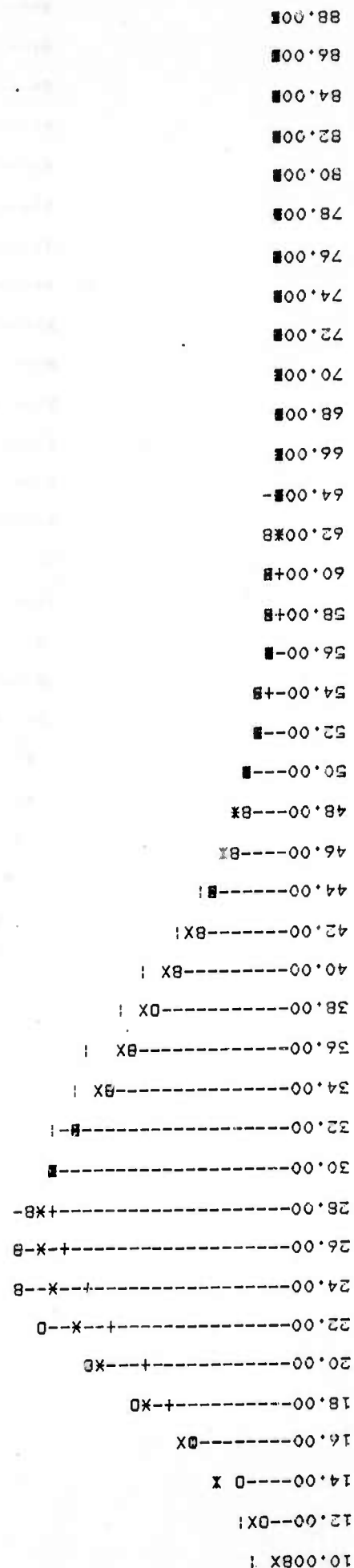


Figure 132. Histogram for Mountain

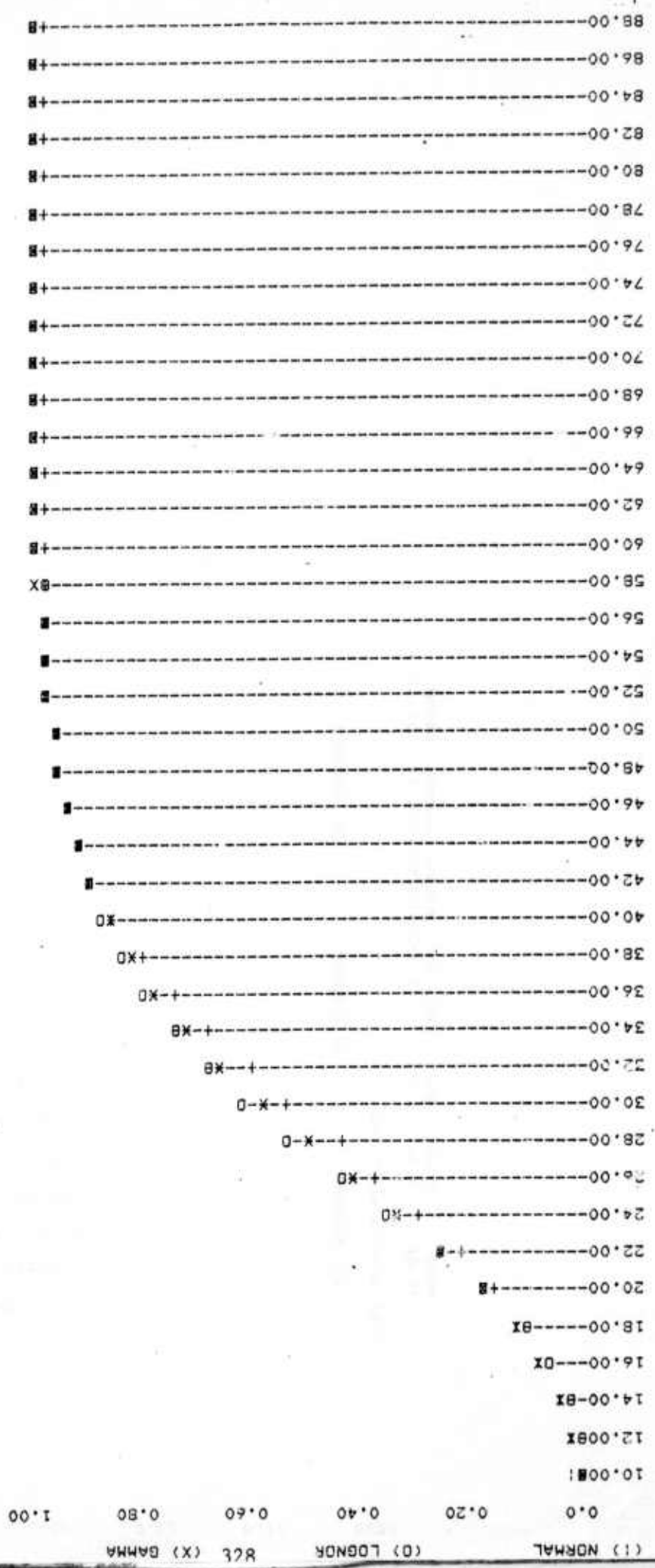


Figure 132a. Cumulative Distribution for Mountain

	Mountain	N	L	G
10.000	0.001	0.011	0.001	0.005
12.000	0.004	0.027	0.008	0.017
14.000	0.017	0.050	0.024	0.039
16.000	0.045	0.080	0.057	0.074
18.000	0.093	0.120	0.108	0.124
20.000	0.160	0.169	0.177	0.187
22.000	0.242	0.228	0.260	0.261
24.000	0.332	0.296	0.350	0.342
26.000	0.424	0.371	0.442	0.426
28.000	0.514	0.450	0.530	0.510
30.000	0.596	0.530	0.611	0.589
32.000	0.670	0.609	0.683	0.661
34.000	0.732	0.682	0.745	0.726
36.000	0.786	0.748	0.797	0.782
38.000	0.828	0.806	0.840	0.828
40.000	0.865	0.853	0.875	0.867
42.000	0.894	0.891	0.903	0.898
44.000	0.918	0.920	0.925	0.923
46.000	0.936	0.941	0.942	0.942
48.000	0.950	0.956	0.956	0.957
50.000	0.961	0.966	0.966	0.968
52.000	0.970	0.973	0.974	0.976
54.000	0.977	0.977	0.980	0.983
56.000	0.982	0.979	0.985	0.987
58.000	0.986	0.981	0.989	0.990
60.000	0.990	0.981	0.991	0.993
62.000	0.992	0.982	0.993	0.994
64.000	0.995	0.982	0.995	0.996
66.000	0.996	0.982	0.996	0.996
68.000	0.998	0.982	0.997	0.997
70.000	0.998	0.982	0.998	0.997
72.000	0.999	0.982	0.998	0.998
74.000	0.999	0.982	0.999	0.998
76.000	1.000	0.982	0.999	0.998
78.000	1.000	0.982	0.999	0.998
80.000	1.000	0.982	0.999	0.998
82.000	1.000	0.982	0.999	0.998
84.000	1.000	0.982	0.999	0.998
86.000	1.000	0.982	1.000	0.998
88.000	1.000	0.982	1.000	0.998

Figure 132b. Cumulative Distribution Data

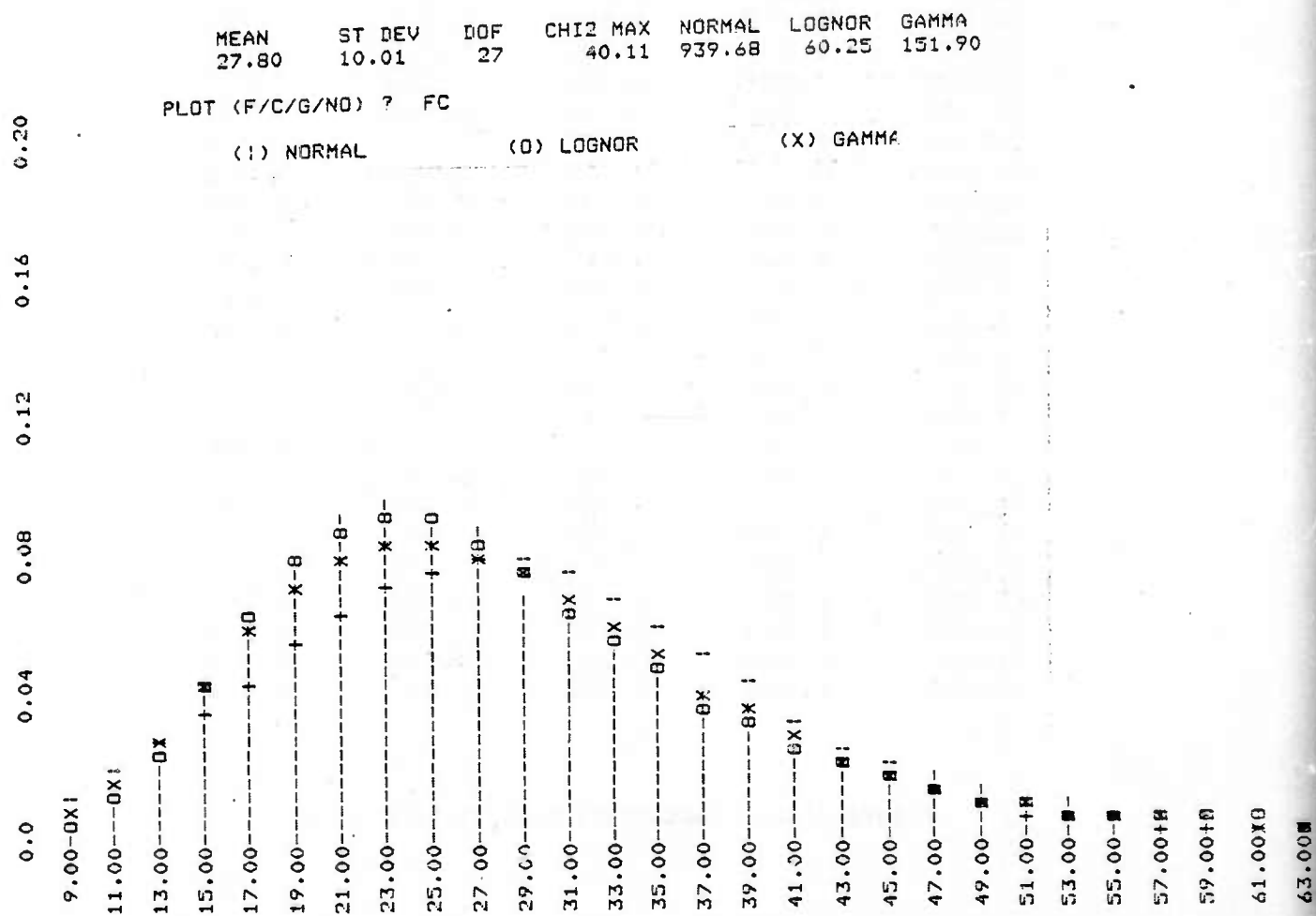


Figure 133. Histogram for Mountain

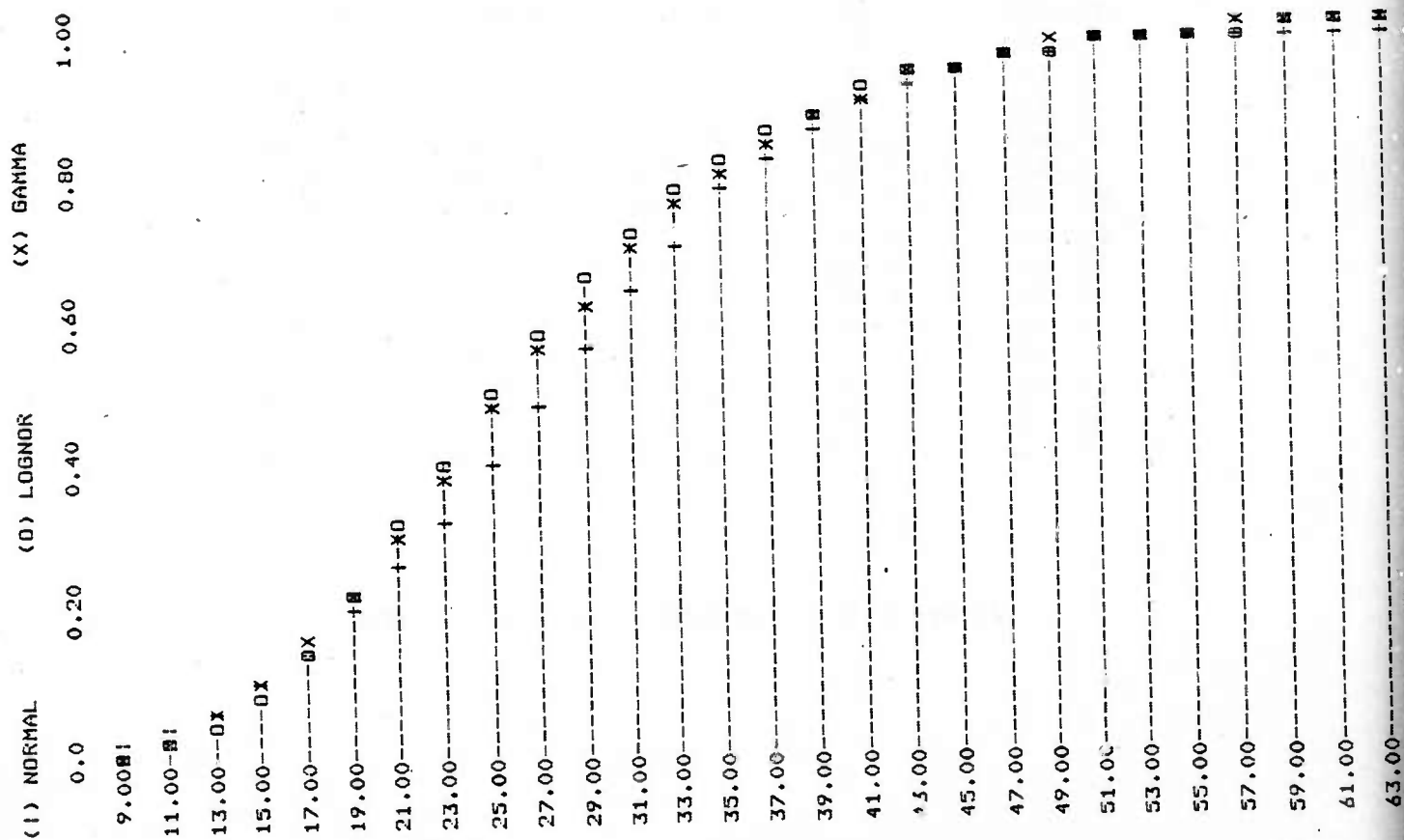


Figure 133a. Cumulative Distribution for Mountain

	Mountain	N	L	G
9.000	0.000	0.014	0.003	0.008
11.000	0.007	0.033	0.013	0.024
13.000	0.026	0.060	0.037	0.053
15.000	0.067	0.095	0.080	0.097
17.000	0.125	0.140	0.143	0.155
19.000	0.204	0.194	0.222	0.225
21.000	0.297	0.257	0.311	0.304
23.000	0.393	0.328	0.403	0.388
25.000	0.480	0.405	0.493	0.472
27.000	0.567	0.484	0.577	0.553
29.000	0.637	0.563	0.653	0.628
31.000	0.701	0.639	0.718	0.695
33.000	0.752	0.708	0.773	0.754
35.000	0.801	0.770	0.819	0.804
37.000	0.840	0.822	0.857	0.846
39.000	0.874	0.865	0.887	0.880
41.000	0.900	0.898	0.912	0.908
43.000	0.921	0.923	0.931	0.930
45.000	0.938	0.942	0.946	0.947
47.000	0.954	0.954	0.958	0.960
49.000	0.964	0.963	0.968	0.970
51.000	0.973	0.968	0.975	0.977
53.000	0.982	0.972	0.980	0.983
55.000	0.986	0.974	0.985	0.987
57.000	0.989	0.975	0.988	0.990
59.000	0.991	0.975	0.991	0.992
61.000	0.994	0.976	0.993	0.993
63.000	0.996	0.976	0.994	0.994
65.000	0.997	0.976	0.996	0.995
67.000	0.998	0.976	0.996	0.996

Figure 133b. Cumulative Distribution Data

APPENDIX II DISTRIBUTION COMPUTER PROGRAM

This appendix contains a listing of the computer program DISTRIBUTION which is used to perform the statistical analysis of the clutter data, calculate the density and cumulative distributions and output distribution histograms and other statistical data. This program is capable of processing up to a quarter million radar return samples interactively with a user terminal. The program is written so that the user can return to any section of the program to modify or repeat any part of the analysis. For a detailed discussion of this program, see Section 2.2.2 of Volume I of this report.

23:10:30 NOV 11, 1977

FILE = DIST(*F,0)

```

-400 IF(1.EQ.33VH) 33R=.TRUE.
-401
-402 SECTION 3
-403
-404 A RECTANGULAR SECTION OF THE
-405 TOTAL DATA MAY BE PROCESSED
-406
-407 WRITE(6,4)
-408 FORMAT(3 ENTER AZIMUTH SWATH')
-409 READ(5,5) IAI,IA2
-410 FORMAT(15)
-411 IAI=MAX0(IAI,1)
-412 IA2=MAX0(IAI,IA2)
-413 WRITE(6,6)
-414 FORMAT(3 ENTER RANGE SWATH')
-415 READ(5,5) IRI,IR2
-416 IRI=MAX0(IRI,1)
-417 IF(IR2.LE.0 OR IR2.GT.MAXLEN) IR2=MAXLEN
-418 WRITE(6,7) IRI,IAI,IA2,IR2
-419 FORMAT(1 BOX '14/3X,15/8X,14/80K ? ' )
-420 READ(5,2) I
-421 IF(1.EQ.NO) GO TO 103
-422 IA=IA2-IAI+1
-423 IR=IR2-IRI+1
-424 IPT=IA+IR
-425 CALL EPASAI
-426 CALL ARRAY(DATA,4,IPT,844,844)
-427 IAA=1
-428 IAR=1
-429 JJ=0
-430
-431 INPUT RAM DATA FROM FILE
-432
-433 DO 40 J=IAI,IA2
-434 LN=J-1000+1000
-435 CALL GETLIN(0,LN,SR(DATA+JJ*IR+1),IRI,IR2,8103)
-436 JJ=JJ+1
-437 WRITE(6,10) IPT
-438 FORMAT(17,1 TOTAL POINTS HAVE BEEN READ')
-439 CONTINUE
-440 IF(IAA.NE.1.OR.IAR.NE.1) GO TO 244
-441
-442 SECTION 4
-443
-444 THE DATA MAY BE AVERAGED INTO
-445 RECTANGULAR SECTIONS AND NORMALIZED
-446
-447 WRITE(6,11)
-448 FORMAT(4 ENTER AZIMUTH AND RANGE AVERAGING INTERVALS AND NORMALIZING OPTION')
-449 READ(5,5) IAA,IAR,INORM,NINT
-450 IAA=MAX0(1,MIN0(IAA,IA))
-451 IAR=MAX0(1,MIN0(IAR,IR))
-452 ND=IPT
-453 IF(IAA.EQ.1.AND.IAR.EQ.1) GO TO 16
-454
-455 AVERAGE DATA BEFORE FINAL PROCESSING
-456
-457 ND=0
-458 DO 13 J=1,IA,IAA
-459 DO 13 JR=1,IR,IAR
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23:10:34

FILE = DIST(*F,0)

```

-260 C
-259 C
-258 CHIN=(BOX(J)-BOXN(J))*2/BOXN(J)+CHIN
-257 IF(.NOT.LOG) CHIL=(BOX(J)-BOXL(J))*2/BOXL(J)+CHIL
-256 IF(.NOT.LOG) CHIG=(BOX(J)-BOXG(J))*2/BOXG(J)+CHIG
-255 XN=XNTOFV
-254 CHIN=CHIN*FND3
-253 CHIL=CHIL*FND3
-252 CHIG=CHIG*FND3
-251 IDF=BOXN-3
-250 ID=MINO(IDF,301)
-249 IF(IDF.GE.35.AND.IDF.LT.45) ID=31
-248 IF(IDF.GE.45.AND.IDF.LT.55) ID=32
-247 IF(IDF.GE.55.AND.IDF.LT.70) ID=33
-246 IF(IDF.GE.70.AND.IDF.LT.100) ID=34
-245 IF(IDF.GE.100) ID=35
-244 WRITE(6,41)
-243 WRITE(6,42) AVE,SU,IDF,CH(MAXO(1,MINO(IDF,301)),CHIN,CHIL,CHIG
-242 FORMAT(1X,2F9.2,17,3X,4E4.2/)
-241 FURNAT('O MEAN ST DEV DOF CH12 MAX NORMAL LOGNOR GAMMA')
-240 C
-239 C
-238 HISTOGRAMS OF THE DISTRIBUTIONS MAY BE PLOTTED
-237 C
-236 C
-235 C
-234 C
-233 C
-232 C
-231 C
-230 C
-229 C
-228 C
-227 C
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-225 C
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-203 C
-202 C
-201 C

```

COMPUTE CHI-SQUARES WITH RAW DATA

CHIN=(BOX(J)-BOXN(J))*2/BOXN(J)+CHIN
IF(.NOT.LOG) CHIL=(BOX(J)-BOXL(J))*2/BOXL(J)+CHIL
IF(.NOT.LOG) CHIG=(BOX(J)-BOXG(J))*2/BOXG(J)+CHIG
XN=XNTOFV
CHIN=CHIN*FND3
CHIL=CHIL*FND3
CHIG=CHIG*FND3
IDF=BOXN-3
ID=MINO(IDF,301)
IF(IDF.GE.35.AND.IDF.LT.45) ID=31
IF(IDF.GE.45.AND.IDF.LT.55) ID=32
IF(IDF.GE.55.AND.IDF.LT.70) ID=33
IF(IDF.GE.70.AND.IDF.LT.100) ID=34
IF(IDF.GE.100) ID=35
WRITE(6,41)
WRITE(6,42) AVE,SU,IDF,CH(MAXO(1,MINO(IDF,301)),CHIN,CHIL,CHIG
FORMAT(1X,2F9.2,17,3X,4E4.2/)
FURNAT('O MEAN ST DEV DOF CH12 MAX NORMAL LOGNOR GAMMA')

HISTOGRAMS OF THE DISTRIBUTIONS MAY BE PLOTTED

WRITE(6,29)
FORMAT('RPLLOT (F/C/NO) ? ')
READ(5,2) I,J
IF=0
IC=0
IF(I.EQ.AF.OR.I.EQ.AC) IF=1
IF(I.EQ.AC.OR.J.EQ.AC) IC=1
IF(IC.FG.1.AND..NOT.(LOG) CALL HIST(NBOX,VIND,BOX,3,MAT,HMAX)
IF(IC.FG.1.AND..LOG) CALL HIST(NBOX,VIND,BOX,1,MAT,HMAX)
IF(IC.FG.0) GO TO 50
DO 54 J=2,NBOX
BOX(J)=BOXN(J)+BOX(J-1)
BOXL(J)=BOXL(J)+BOXL(J-1)
BOXG(J)=BOXG(J)+BOXG(J-1)
CONTINUE
IF(.NOT.LOG) CALL HIST(NBOX,VIND,BOX,3,MAT,0.)
IF(.NOT.LOG) CALL HIST(NBOX,VIND,BOX,1,MAT,0.)
WRITE(6,51) NO
FURNAT('SAVE RESULTS',16,' POINTS (Y/N) ? ')
READ(5,2) I
IF(I.NE.YES) GO TO 49
IF(I.SAVE.NE.1) WRITE(6,52)
FURNAT(' ENTER FILE NAME')
IF(I.SAVE.NE.1) CALL ASSIGN(7,DUM,DUM,150)
ISAVE=1
WRITE(7,53) (R(DATA+I),I=1,NO)
FURNAT(20F6.2)
PCNST=FLOAT(COUNT(0)/100)/100.
TCNST=PCNST-HCNST
ACNST=PCNST-CCNST
ECNST=PCNST
WRITE(6,46) ACNST,TCNST
FURNAT(' 5',F5.2,4X,'5',F6.2,'T')

THIS PROGRAM MAY BE RESTARTED AT ANY SECTION

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FILE = DIST(AF,0)

```

-200      <238>      WRITE(A,40)
-199      <239>      FORMAT(1,ENTER REPEAT INDEX')
-198      <240>      READ(5,5) I
-197      <241>      IF(I.LF.0) GO TO 99
-196      <242>      IF(I.GT.5) GO TO 47
-195      <243>      IF(I.EQ.4.AND.LOG) GO TO 244
-194      <244>      GO TO (101,102,103,104,105,106),I
-193      <245>      WRITE(A,45)
-192      <246>      FORMAT(1,*** INSUFFICIENT MEMORY AVAILABLE ***')
-191      <247>      GO TO 103
-190      <248>      STOP
-189      C
-188      C      SECTION 6
-187      C      THE FREQUENCY OR CUMULATIVE DISTRIBUTIONS
-186      C      MAY BE OUTPUT IN TABULAR FORM
-185      C
-184      C
-183      <249>      104      WRITE(6,206) (ROX(J),ROXN(J),HOXL(J),BOXG(J),J=1,NEOX)
-182      <250>      206      FORMAT(4F10.3)
-181      <251>      GO TO 49
-180      <252>      END

```

FILE = DIST(*F,0)

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2310134

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```

-179 C
-178 C
-177 C
-176 C
-175 C
-174 C
-173 C
-172 C
-171 C
-170 C
-169 C
-168 C
-167 C
-166 C
-165 C
-164 C
-163 C
-162 C
-161 C

ROUTINE USED TO INPUT RAW DATA

SUBROUTINE GETLIN(IO, LN, DATA, IR1, IR2, *)
LOGICAL*1 LI(3000)
LOGICAL*4 L4
REAL DATA(1)
EQUIVALENCE (L4, I4)
INTEGER*2 LEN
CALL READ(LI, LEN, 2, LN, IO, I2)
JJ=0
DO 1 J=IR1, IR2
  JJ=JJ+1
  L4=LI(J)
  DATA(J)=I4
RETURN 1
END

```

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23:10134

FILE = DIST.F,0

```

C
C
C
ROUTINE USED TO INTEGRATE THEORETICAL DISTRIBUTIONS
FUNCTION FUNC(STR,AVE,SD,AREA,XN,XX,P1)
LOGICAL*1 STR(1),EQUC
INTEGER K1(1),K2(1)
REAL*8 A(1),R(1),F(1),X(1),Q(1)
FUNC=0.
I=0
IF(EQUC(STR(1),'N')) I=1
IF(EQUC(STR(1),'L')) I=2
IF(EQUC(STR(1),'G')) I=3
IF(EQUC(STR(1),'C')) I=3
IF(I.EQ.0) RETURN
SD2=SD*SD
IF(I.EQ.3) USD=AVE*AVE/SD2
IF(I.FQ.3) CONST=USD*ALOG(AVE/SD2)-ALGAMA(USD)
K1(1)=3
K2(1)=4
A(1)=XN
R(1)=XX
K=1
CALL GLINT(K,A,B,K1,K2,F,X,0.82,83)
X1=X(1)
GO TO (10,11,12),I
C INTEGRATE NORMAL CURVE
F(1)=EXP(-(X1-AVE)**2/(2.*SD2))
GO TO 1
C INTEGRATE LOG-NORMAL CURVE
F(1)=EXP(-(20.*ALOG10(X1-P1)-AVE)**2/(2.*SD2))/(X1-P1)
GO TO 1
C INTEGRATE GAMMA CURVE
F(1)=EXP((-X1*AVE/SD2)+(USD-1.)*ALOG(X1)*CONST)
GO TO 1
X1=R(1)
GO TO (20,21,22),I
FUNC=X1*AREA/(SD*2.50663)
RETURN
FUNC=X1*AREA*(20./ALOG(10.))/(SD*2.50663)
RETURN
FUNC=X1*AREA
RETURN
END

```

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23:10:134

FILE = DIST(*F,0)

```

ROUTINE USED TO OUTPUT HISTOGRAMS

SUBROUTINE HIST(NP,V,BDX,NG,HMAT,HMAX)
  REAL V(1),Y(6),HMAT(123,1),BDX(1)
  LOGICAL A1,B(100),CHP(3),I1,'0','X','D','-'
  LOGICAL A1,BL,I1,RS,Z16,FQUC
  INTEGER NC(3),NI(3)
  H=0.
  DO 1 J=1,NP
    H=MAXI(H,BDX(J))
    IF(NG.FQ.0) GO TO 1
    DO 2 K=1,NG
      H=MAXI(H,HMAT(J,K))
    CONTINUE
    IF(C*MAX(FQ.0.0) GO TO 19
    H=HMAX
  GO TO 5
  IF(H.GT.0.6) GO TO 5
  IF(H.GT.0.3) H=.5
  IF(H.GT.0.12,AND,M.LE.0.3) H=.25
  IF(H.LE.0.12) H=.1
  DEV=H*.5
  WYI=1/(6.6)
  FURMAT('01,5X,'(1) NORMAL',10X,'(0) LOGNOR',10X,'(X) GAMMA')
  Y(1)=0.
  DO 3 J=2,6
    Y(J)=Y(J-1)*DEV
  WRITE(6,*) Y
  FURMAT('01,3X,6F10.2)
  DEV=50./H
  DO 10 J=1,NP
    DO 9 J1=1,100
      R(JJ)=RL
      H=FIX(BDX(J)*DEV+.5)+1
      DO 11 K=1,N
        A(K)=0
        IF(NG.EQ.0) GO TO 8
        DO 12 K1=1,NG
          NC(K)=FIX(HMAT(J,K)*DEV+.5)+1
          NI(K)=K
        CALL SORTIS('S=F1,0,,4 END ',NC(1),NC(NG),4,NI(1),4)
        DO 13 K1=1,NG
          I=NC(K)+1
          LL=100
          DO 14 L=1,98
            A(LL)=R(LL-2)
            LL=LL-1
          A(1)=0
          R(1)=0
          R(I)=CHR(NI(K))
        CONTINUE
        N=100
        DO 15 K1=1,100
          IF(-NOT.EQUC(C(N),BL)) GO TO 16
          N=N-1
        WRITE(6,17) V(J),R(1),I=1,N)
        FURMAT('01,F10.2,100A1)
        CONTINUE
        WRITE(6,18)

```


APPENDIX III DIGITAL TAPE LOGS

This appendix contains a complete listing of the X-L radar returns available in the form of digital tapes. The type of terrain (or sea) is listed as closely as possible under "Keywords". It obviously has been impossible to completely analyze statistically all this data in a form useful to all investigator requirements. It is hoped that this appendix with its catalog of available data will indicate to investigators the data base available for additional and/or specialized analysis.

IPL # 407 FILE # 1 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 85 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 268 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Re-frozen lead (scene 1), 30°

IPL # 407 FILE # 2 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 276 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Pancake ice (scene 2), 30°

IPL # 407 FILE # 3 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 395 m from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS
FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Black ice (scene 3), 30°

IPL # 407 FILE # 4 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 457 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Shore-fast ice (scene 4), 30°

IPL # 407 FILE # 5 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 588 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Land (scene 5), 30°

IPL # 408 FILE # 1 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 85 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Refrozen lead (scene 1), 20°

IPL # 408 FILE # 2 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 276 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS
FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Pancake ice (scene 2), 20°

IPL # 408 FILE # 3 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 395mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Black ice (scene 3), 20°

IPL # 408 FILE # 4 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 457 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Shre-fast ice (scene 4), 20°

IPL # 408 FILE # 5 CURRENT DATE 8-26-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 588 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6mm

OFFSET TO CENTER: 43.4mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Land (scene 5), 20°

IPL # 409 FILE # 1 CURRENT DATE 8-30-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 85 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS
FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Refrozen lead (scene 1), 60°

IPL # 409 FILE # 2 CURRENT DATE 8-30-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 276 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Pancake ice (scene 2), 60°

IPL # 409 FILE # 3 CURRENT DATE 8-30-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 395 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Black ice (scene), 60°

IPL # 409 FILE # 4 CURRENT DATE 8-30-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 457mm from star of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Shore-fast ice (scene 4), 60°

IPL # 409 FILE # 5 CURRENT DATE 8-30-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-24-77 PASS # 2

APPROX. LOCATION IN PASS: 588 mm from start of Pass 2

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Labrador Sea

KEYWORDS: Land (scene 5), 60°

IPL # 410 FILE # 1 CURRENT DATE 9-2-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 86 cm from start Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, Newfoundland

KEYWORDS: Mountain & intermountain terrain (scene 1), 60°

IPL # 410 FILE # 2 CURRENT DATE 9-2-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 126 cm from start of Pass 4

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, Newfoundland

KEYWORDS: Mountain & intermountain terrain (scene 2), 60°

IPL # 410 FILE # 3 CURRENT DATE 9-6-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 172 cm from start Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1mm

OFFSET TO CENTER: 4mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terr in (scene 3), 60°

IPL # 410 FILE # 4 CURRENT DATE 9-6-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 31.5 cm from start Pass 5 (on imagery)

RADAR SYSTEM: X- FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS₀ MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1 mm

OFFSET TO CENTER: 4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 4), 60°

IPL # 411 FILE # 1 CURRENT DATE 9-7-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 86 cm from start Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 50

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 1), 30°

IPL # 411 FILE # 2 CURRENT DATE 9-7-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 126 cm from start Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 2), 30°

IPL # 411 FILE # 3 CURRENT DATE 9-7-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 172 cm from start of Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay New Foundland

KEYWORDS: Mountain 7 intermountain terrain (scene 3), 30°

IPL # 411 FILE # 4 CURRENT DATE 9-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 31.5 cm from start of Pass 5 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 4660 TOTAL POINTS: 256

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.3 mm

OFFSET TO CENTER: 26.8 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 4), 30°

IPL # 412 FILE # 1 CURRENT DATE 9-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 86cm from start of Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 1), 20°

IPL # 412 FILE # 2 CURRENT DATE 9-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 126 cm from start of Pass 4 (on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 2), 20°

IPL # 412 FILE # 3 CURRENT DATE 9-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 4

APPROX. LOCATION IN PASS: 172 cm from start of Pass 4

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: ~~Mountain & intermountain terrain~~ (scene 3), 20°

IPL # 412 FILE # 4 CURRENT DATE 9-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 31.5 cm from start of Pass 5

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 5820 TOTAL POINTS: 308

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.6 mm

OFFSET TO CENTER: 43.4 mm

TEST AREA LOCATION: Sept. Isles, Quebec to Goosebay, New Foundland

KEYWORDS: Mountain & intermountain terrain (scene 4), 20°

IPL # 413 FILE # 1 CURRENT DATE 9-23-77

DATA TYPE (Signal or Output). Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.6 km before end Pass 5

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 29.1 mm

OFFSET TO CENTER: 24.3 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector arrays

IPL # 413 FILE # 2 CURRENT DATE 9-27-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.6 km before end Pass 5 (16.2 cm on image)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HV

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 29.1 mm

OFFSET TO CENTER: 24.3 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector arrays

IPL # 413A FILE # 1 CURRENT DATE 10-17-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.6 km beofre end Pass 5 (16.2 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 29.1 mm

OFFSET TO CENTER: 24.3 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector arrays

IPL # 413A FILE # 2 CURRENT DATE 10-17-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.6 km beofer end Pass 5 (16.2 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HV

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 29.1 mm

OFFSET TO CENTER: 24.3 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector arrays

IPL # 413A FILE # 3 CURRENT DATE 10-20-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.1 km before end Pass 5 (140.9 cm on imagery)

RADAR SYSTEM: X-L FREQ: X-Band POLARIZATION: HV

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 26.8 mm

OFFSET TO CENTER: 21.9 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector test arrays

IPL # 413A FILE # 4 CURRENT DATE 10-21-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-23-77 PASS # 5

APPROX. LOCATION IN PASS: 21.1 km before end Pass 5 (140.9 cm on imager)

RADAR SYSTEM: X-L FREQ: X-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 1818 TOTAL POINTS: 2306

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 26.8 mm

OFFSET TO CENTER: 21.9 mm

TEST AREA LOCATION: Goose Bay AFB

KEYWORDS: GBAFB, corner reflector test arrays

IPL # 431A FILE # 1 CURRENT DATE 11-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-20-77 PASS # 3

APPROX. LOCATION IN PASS: 6 km after start of Pass 3 (.45 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 6800 TOTAL POINTS: 2500

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 31.5 mm

OFFSET TO CENTER: 19.6 mm

TEST AREA LOCATION: Tonorto, Ontario

KEYWORDS: _____

IPL # 432 FILE # 1 CURRENT DATE 11-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-15-77 PASS # 2

APPROX. LOCATION IN PASS: 34.1 km before end Pass 2 (25.4 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 624 TOTAL POINTS: 118

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 1.5 mm

OFFSET TO CENTER: 14.2 mm

TEST AREA LOCATION: Ontario, Canada

KEYWORDS: Field A

IPL # 432 FILE # 2 CURRENT DATE 11-8-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-15-77 PASS # 9

APPROX. LOCATION IN PASS: 24.7 km from start Pass 9 (18.5 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 536 TOTAL POINTS: 198

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 2.5 mm

OFFSET TO CENTER: 30.7 mm

TEST AREA LOCATION: South of Windsor, Canada

KEYWORDS: Field B

IPL # 432 FILE # 3 CURRENT DATE 11-9-77

DATA TYPE (Signal or Output): Output

FLIGHT DATE: 2-15-77 PASS # 3

APPROX. LOCATION IN PASS: 6.1 km before end Pass 3 (4.6 cm on imagery)

RADAR SYSTEM: X-L FREQ: L-Band POLARIZATION: HH

RANGE RESOLUTION 3m AZIMUTH RESOLUTION 4.5m

FOCUS: 0 MM: WHERE + INDICATES MOVEMENT TOWARDS

FREQUENCY PLANE.

TOTAL LINES: 624 TOTAL POINTS: 238

SAMPLES/RANGE RES ELEMENT: 2

SAMPLES/AZIMUTH RES ELEMENT: 3

TOTAL SWATH WIDTH: 3.0 mm

OFFSET TO CENTER: 12.5 mm

TEST AREA LOCATION: Ontario, Canada

KEYWORDS: Field C

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